<image>

Release Notes

Central-I, integrated and standalone controls and drives



Doc revision: 0.2



www.agito-akribis.com

Member of Akribis Systems group



1 Release Information

| Release Date: | 7/03/2022 |
|-------------------------|---|
| | |
| Released FW version | 1.6.0.0 |
| | |
| FPGA version | 1.17.1, 2.3.0, 2.5.0, 4.0.1 (see table 1) |
| | |
| Boot version | 1.013 |
| | |
| PC Suite version | 10.7.0 |
| | |
| AAComm version | 4.15.1.0 |
| | Central-i: AGA800, AGA101/102/103, AGA155, |
| Related Products | Standalone: AGD200, AG301, AGC300, AGC301, AGD155 |
| | TBD |
| Release file's location | |

| Product | FW Rev. | FPGA Rev. | HW Rev. | Boot FW Rev. |
|----------------|-----------------|-----------|---------|-----------------|
| AGC300-ET | 1.6.0.0 | 1.17.1 | Rev 3,4 | 1.013 |
| AGC301-ET | 1.6.0.0 | 2.3.0 | All | 1.013 |
| AGD155-AF-xx | 1.6.0.0 | 2.5.0 | All | 1.013 |
| AGD200-ET-xx | 1.6.0.0 | 1.17.1 | Rev 3,4 | 1.013 |
| AGD301-ET-xx | 1.6.0.0 | 2.3.0 | All | 1.013 |
| AGM800-CI | 1.6.0.0 | NA1 | All | 1.013 |
| AGA101-CI-xx | NA ² | 4.0.2 | All | NA ² |
| AGA102-CI-xx | NA ² | 4.0.2 | All | NA ² |
| AGA103-CI-xx | NA ² | 4.0.2 | All | NA ² |
| AGA155-CI-xx | NA ² | 4.0.2 | All | NA ² |
| AGI001-CI-1608 | NA ² | 4.0.2 | All | NA ² |
| AGI002-CI-3216 | NA ² | 4.0.2 | All | NA ² |
| AGL101-CI | NA ² | 4.0.2 | All | NA ² |
| AGL102-CI | NA ² | 4.0.2 | All | NA ² |

¹ - AGM800 FW file include FPGA image
 ² - Central-i amplifiers, adapters and I/O modules requires only FPGA image

Table 1- Versions' matrix



2 New Features

| Feature | Products affected |
|---|-------------------|
| CNC mode enhancements: | AGM800 |
| Added support for additional CNC engine - CNCB. Now AGM800 support two independent CNC engines - CNCA and CNCB in one controller. The user can define two groups of axes per CNC engine and execute two CNC sequences independently. Added New keyword: CNCASpeedPer (CNCBSpeedPer). A factor (in percent) to apply on the CNC Speed (in addition to CNCAPercents). It affects the CNC velocity only (not acceleration and deceleration). At CNC, if the segment is too short to decelerate to its end speed, the velocity reference is not jumping, but a new deceleration is calculated (higher than the user defined) and is used till the end of this segment. Adding CNCA and CNCB position reference filters. New segment added to CNC motion: Modify CNC Position Filter | |
| Added support for Position- Time trajectory interpolated mode. Linear, cubic, and parabolic spline interpolation are supported. In this mode position data vs time stored in internal buffer, that allows coordinated motion between multiple axes. Position profiles can be executed on each axis defined in group. | AGM800 |
| Added support for CurrDir parameter to invert direction of motor and current. It allows invert physical motor direction without changing wiring. | AGDxx, AGM800 |
| Motor stuck protection is deactivated for stepper motor types | AGDxx, AGM800 |
| Add support for for LockSrc for bi-directional I/O #1 to #8. In previous version LockSrc is supported only up to bidirectional IO #2 | AGD301 |
| Updated gearing mode definitions, gear input (master) can be defined by parameter as auxiliary encoder or as encoder port for next axis or section of data in ECAM table. | AGDxx , AGM800 |
| Add support for Tacho velocity feedback (as analog input) and Dual Loop based support based on Tacho input. | AGDxx , AGM800 |
| Open loop current command increased to 14A (in previous version was 12A) | AGD155 |
| For error mapping, adding a new keyword: MapErrOffRamp. The offset of the error mapping (a value set by the user and is added to the error from the table) is not affecting immediately but gradually. To avoid motor jump. | AGDxx , AGM800 |
| Added support to initialize controlled stop by means of discrete input. It can be used as E-stop input to stop the motor according to emergency deceleration rate | AGDxx , AGM800 |



| Velocity bi-quad filter moved to the forward loop. Not expected change in control performances. In very high demanding applications (fast responses), user may see improved performance. Another difference is that Vel [1] (before it was after the filter) is now showing like Vel [2] (derivative of the position), meaning with the noise. But this is just visual and anyway the default for graphs was Vel [3] which remains unchanged | AGDxx , AGM800 |
|--|------------------------|
| Force mode enhanced: Added two new keywords: CurrPosTh and CurrPosThDir. Trigger switching to current or to force modes from position mode is now ANDed with this new condition (Position must pass the threshold). | AGDxx , AGM800 |
| Burn in mode (and two new keywords: BurnInMode, BurnInFreq). Used for amplifiers internal production tests | AGDxx , AGM800 |
| Number of velocity Bi-Quad filters increased to 4. | AGDxx,AGCxx, AGM800 |
| New keyword: CanMotorOnRes. Holds the returned value of CanMotorOn. CanMotorOn does not return a value anymore. | AGDxx,AGCxx, AGM800 |
| Auto Phasing Learn changes CurrDir when needed instead of EncDir to simplify and support all feedback types | AGDxx, AGM800 |
| Add new keyword: ClearIntegral. Clears the velocity PI integral. | AGDxx,AGCxx, AGM800 |
| For error mapping, adding a new keyword: MapErrOffset. This value is added to the error from the table. | AGDxx,AGCxx, AGM800 |
| In Gantry mode, if one of the motors is disabled, the other one is also disabled. | AGDxx,AGCxx, AGM800 |
| Position events by hardware table implemented. When pulse is fired, it will trigger a background loop to inquire event counter and event next position register | AGDxx,AGCxx, AGM800 |
| For AGD301: increased the size of many array parameters. UserParam size, 50 to 250 GenArray, 1000 to 5000 RecArray from 16500 to 30500 CNC FIFO Size, from 1500 to 5000 | AGD301 |
| UserParam array increased from 50 to 250 for AGM800. | AGM800 |
| Added support for EncDir for absolute encoders. | AGDxx,AGCxx, AGM800 |
| New keyword: PosBeforeMap. Showing the position before the error mapping. Nice for debugging and sometime may be needed for the customer | AGDxx,AGCxx, AGM800 |
| Support for CanMotorOn new keyword. | AGDxx,AGCxx, AGM800 |
| PosErr is forced to zero in non-Position Operation Modes. | AGDxx,AGCxx, AGM800 |
| UPM Repetitive feature is now implemented (recommended for AGM800 only). | AGM800 |



| Analog inputs are sampled @61us and the analog filter cutoff frequency increased to 8000Hz. Default: 1000Hz. | AGD155 |
|---|------------------------|
| Incremental encoder emulation direction control. | AGDxx,AGCxx, AGM800 |
| PeakTime is limited to 1500 | AGA155, AGD155 |
| Support for 12 threads at user program. | AGM800 |
| Support for ChooseAxis per thread. ChooseAxis[last thread + 1] is for communication and any none-user program usage. | AGM800 |
| HomingStep keyword added, reporting the executed step when homing is executed and the last executed step once homing completes. | AGM800 |
| New DInMode functionality (25) that starts homing sequence. | AGM800 |
| Added support EnDAT 2.2 36 bit | AGAxx , AGM800 |
| Enhanced current sensing mechanism | AGA155,AGA103 |
| Enabled Safety feedback output | AGA102 |
| Enhanced lock and capture accuracy for SinCos encoders | AGAxxx |
| Added support for HW revision with 4K FPGA | AGA102,AGA101 |
| Added support for encoder emulation output for absolute encoders | AGD155 |
| Added Support for auxiliary encoder for AGD155 (incremental only for now) | AGD155 |
| | |



3 Fixed issues

| Fix | Products affected |
|---|------------------------|
| ConterUp[] and CounterDown[] are now both counting up/down every 61us. In previous versions CounterUp[] increased by one every 976us and CounterDown[] decreased by 16 every 976us. | AGDxx ,AGCxx AGM800 |
| Fixed issue with analog output rollover. | AGDxx ,AGCxx AGM800 |
| Central-i Event counter is now incrementing when a pulse is fired (for event table type) | AGDxx ,AGCxx AGM800 |
| Endat 2.2 clock output increased to 2MHz to resolve VelRef update issue | AGAxx,AGDxx |
| Updated current rating values for all AGAxx amplifiers | AGAxx |
| Fixed issue with SinCos encoder disconnection detection | AGD155,AGD301 |
| Fixed clock for Pulse and Direction input filter to be 40MHz | AGD155,AGD301 |
| Fixed issue that sometimes motor stuck fault occurred during auto- phasing | AGDxx,AGCxx, AGM800 |
| Position Event Counter changed from 16 bits to 32 bits | AGAxx |
| Encoder filter fixed – Bug injected at 2.4.0 causing Incremental filter to be ineffective | AGAxx |
| AGL101 Digital Input 5 & 8 swap fixed | AGL101 |
| AGL102 Analog Input 1 & 4 swap and Analog input 2 & 3 swap fixed | AGL102 |
| AGA102 VBus reading at 128v if VBus supply is disconnected while Vlogic supply is still connected | AGA102 |



4 **PCSuite and AAComm revision history**

Feature/Fix

User interface for new features 1.6.0.0 support:

- New Ultra precision mode "Repeated Motion"
- Support for FPGA update for central-I remote units
- Open loop current tuning
- Spline Buffer Motion
- Support for CurrDir (current direction)
- Tacho feedback and Tacho dual loop support
- Dual loop
- Lock/Event updates
- CNC: CNCB engine, position filter

UI Enhancements:

- Manage/Params: Add "reset to controller defaults" section + UI improvements
- IO's: Display a HW Info line (describing IO's pins, connectors, etc.) Added connector and pin# near every I/O.
- PCSuite 'Splash Screen' on start-up
- Tools/Homing
- Feedback/Event screens
- Config/Ci: Add statuses for Comm, Amp., Variant and FPGA Size versions
- New PCSuite and Viewer background
- Tune/Gantry
- Floating windows (I/O, Analog inputs, Algorithms Statuses)
- Improved 'Temperature' display (i.e. "NA", STO disconnected)

IDE+ enhancements:

- Auto-complete for 'P' axis
- Allow use of #define as ranged #definevar indexer (MyVar[MyDefine]=17)
- Notify on not-implemented trigonometric functions
- Allow up to 12 user program threads statuses
- Support hover over thread-related 'P' axis keyword



General updates:

- FPGA version to Upload Parameters file
- Extend FW/FPGA mismatch indication (Support for UnitStat bits[1,2])
- Config/Feedback: Support for EncAbsMB and EncAbsOff
- Tune/PIV: Add protections and fallback for PIV/PID conversions
- Support new ComtAng units
- Manage/FW: Special handling for currents validation while in BOOT mode
- Tune/Curr: Don't stop auto-data-rec on "Apply All" clicks
- Discrete IO: Align number of AGA102, AGA155, AGL101, AGL102 remote units IO's
- Tune/Phase: Restore "Minimal jumps search" phasing mode
- Tools/Homing: Add HomingStep status
- Manage/COM: Improve connectivity statuses
- Tools/Homing: Update 'predefined homing sequences' files
- Tune/Curr: improve PI calculation for AGD155
- Charter: add "Vertical AND Horizontal" markers
- Enhanced Slow Logger precision and memory handling. Increase log upload rate
- Enhanced support for Chinese language
- Add FW/FPGA compatibility validation
- Tune/Force: Update "on the fly mode switching" logic (from Position to Current or to Force)
- Discrete Inputs: add "25 Homing On" DInMode value
- CNC G code converter: support "G01-04" syntax the extra "zero"
- Tune/Phase: remove "Minimal jumps search" phasing mode

Bug fixes:

- Tools/Homing: Fix 'Save-As parameters file' functionality
- Statuses sometimes stop refreshing
- Tools/Homing: Timeout at steps 13 16
- Discrete IO's: Allow up to 32 inputs (for AGIO02)
- Analog Inputs: Refresh issue when reconnecting to a Master remote unit
- AGM400: increase reset time for proper reconnect
- Motion and Tune PTP control: send AccelFact on move abs/rel button clicks
- Manage/Params: Params DL got stuck if Disconnected in middle of DL
- Tune/Auto Phase: Crash on tool navigation if already connected
- Tune/Gantry: Fix an axis-related bug in the PTP tab
- HWProtectBits statuses refresh
- allow negative values at PD input factor



5 Known issues, limitations, and restrictions

| Торіс | Products affected |
|---|-------------------|
| AGM400 is limited to support only 3 axes due to computing power | AGM400 |
| limitation. Its recommended use AGM800 for any new design. | |
| AGM400 will be declared as obsolete in December 2021. | |
| In AGA155 reduce number of Input from 20 to 16. change input 16 | AGA155 |
| to input 12, lock source support for input 3 to input 14. Not | |
| backward compatible to FPGA rev3.xx and earlier | |
| AGA102 Bi-Directional IO moved from bit 9 to bit 8 | AGA102 |
| | |



6 FW and FPGA update procedure

Before FW update its recommended to backup controller parameters and user program on local disk.

User program will not run after FW update and shall be downloaded to controller after the update procedure.

6.1 Central-I controls and remoted update procedure:

Central-I AGM800 master FW update procedure:

- Table 2 defines FW file per AGM800 controller P/N and revision. AGM800 requires only FW update, the file name in the table below.

| | P/N | FW File name |
|-----------------------------|-----------|-------------------------|
| AGM Central-i Controller | AGM800-CI | AGM800_V1.5.0.1-908.bin |

Table 2- AGM800 FW files

To update FW:

- Press "Manage" button and select "FW:

| oly and Next | Preview mode | e Start Rec & Show Gr | aph (F5) Ford | e Trigger Sta | irt Upload | St CONN | PARM | Ctri + SHRT PRE | FW | FPGA |
|--------------|--------------|-----------------------|---------------|-------------------------------------|------------|---------|--------|--------------------|----|------|
| CONFIG | | Notion | 2 | FEEDBACK P & N = 1 IIIIIIIIII | PROGRAM | TOOLS | MANAGE | ₽? | | |

- Chose FW file name according to Table 2, the file shall be copied to local disk.
- Select "connection", by default it will be Auto (Ethernet), AGM800 (172.1.1.101:50,000)
- Set Password: 160412
- Press Download FW button



Agito PCSuite v.10.5.0-4.0

| Download Firmwa | re |
|----------------------|---|
| File name: | C:\Data\Documnetation\Release notes\Release 20210817\Central-I\Master\FW\AGM800_V1.5.0.1-908.bin |
| Version: | MAS02; Created: 14 September 2021, 09:41:15 Modified: 19 August 2021, 15:13:42 |
| HEX file data: | NA for this FW package |
| ✓ Verify current ra | tings (not in boot, not for 'MASTER' products) |
| Communication: | Auto (Ethernet), AGM800 (172.1.1.101:50,000) |
| Password: | 160412 |
| Firmware file versio | n: MAS02; Created: 14 September 2021, 09:41:15 |
| Controller firmware | version: 1.5.0.1-908 (ALPHA) |
| Status: Downloa | ading FW data |
| | |
| Cancel | Download Firmware Note: Recommended to consider parameters saving and/or uploading before downloading new |
| | wole: The user program will be erused |
| | |
| | |
| | |
| | |
| | |
| | |

Central-I remote units update procedure

- Table 3: Defines FPGA file per product and its HW revision and FPGA size. Central-I remote units require only FPGA update, the file name shall be selected according to table below.

| | P/N | HW Rev | FPGA size | FPGA file name |
|--------------------------------|----------------------|---------------------|-----------|-----------------------------------|
| AGAxxx Central-i | AGA101-CI-xx | Amp: R1 Comm: R2 | 4K | AGA101_4K_AmpR1_CommR2_v4.0.1.rpd |
| Remote Amplifier | AGA101-CI-xx | Amp: R3 Comm: R2 | 4K | AGA101_4K_AmpR3_CommR2_v4.0.1.rpd |
| | AGA101-CI-xx | Amp: R1 Comm: R2 | 8K | AGA101_8K_AmpR1_CommR2_v4.0.1.rpd |
| | AGA101-CI-xx | Amp: R1 Comm: R3 | 8K | AGA101_8K_AmpR1_CommR3_v4.0.1.rpd |
| | AGA101-CI-xx | Amp: R3 Comm: R3 | 8K | AGA101_8K_AmpR3_CommR3_v4.0.1.rpd |
| | AGA102-CI-xx- 004 | all | 4K | AGA102_4K_v4.0.1.rpd |
| | AGA102-CI-xx | all | 8K | AGA102_8K_v4.0.1.rpd |
| | AGA103-CI-1D03 | all | 8K | AGA103_8K_v4.0.1.rpd |
| | AGA155-CI-2A06 | all | 8K | AGA155_8K_2A06_v4.0.1.rpd |
| | AGA155-CI-2A10 | all | 8K | AGA155_8K_2A10_v4.0.1.rpd |
| AGIO | AGI001-CI-1608 | | 4K | AGI001_4K_v4.0.1.rpd |
| Central-i Remote | AGI001-CI-1608 | Comm: R2 | 8K | AGI001_8K_CommR2_v4.0.1.rpd |
| I/O | AGI001-CI-1608 | Comm: R3 | 8K | AGI001_8K_CommR3_v4.0.1.rpd |
| | AGI002-CI-3216 | all | 4K | AGI002_4K_v4.0.1.rpd |
| AGL | AGL101-CI | all | 4K | AGL101_4K_v4.0.1.rpd |
| Central-i Link / Adapter | AGL102-CI | all | 4K | AGL102_4K_v4.0.1.rpd |



Table 3-Central-i remote units version files

To update FPGA:

- First step is to identify the HW revision and FPGA size in the unit that will be updated.
- Revision and FPGA size can be seen in Central-I connection management screen for newer versions.

| Central | -i Connections Man | agement | |
|---------|-----------------------|-------------|-------------|
| Show | Characteristic | A main | B main |
| A 🖌 | Status: | Connected | Connected |
| ₩ B | | (10 MHz) | (10 MHz) |
| De | Version | 4.0.1 | 22.1 |
| | Comm/Amp. rev.: | 0x0/0x0 | 0x0/0x0 |
| | Variant/FPGA Size: | 77/8K | 12/NA (0) |
| Πŧ | Cont. current: | 8000mA | 8000mA |
| □ F | Peak current: | 16000mA | 18000mA |
| ΠG | Bus voltage: | 12.0V/55.0V | 12.0V/55.0V |
| | # Discrete inputs: | 8 | 9 |
| | # Discrete outputs: | з | 3 |
| | # Isolated Dis. out.: | 2 | 2 |
| 01 | Analog I/O: | 1/0 | 1/0 |

- If the revision and FPGA size not displayed. The information can be found on product label.
- Press "Manage" button and select "FPGA:



- Select "Remote Amplifier / IO unit FPGA" radio button
- Chose FGPA file name according to Table 3, the file shall be copied to local disk.
- Select "connection", by default it will be Auto (Ethernet), AGM800 (172.1.1.101:50,000)
- Set Password: 160412
- Select Remote Unit target port
- Note: If revision and FPGA not identified by PCSuite, check "Allow Force Download"
- Press Download "Remote FPGA" button



| _ | Download FPGA | | | | | | | | | |
|---|----------------------|---|----------------------|----------------|-----------------------|----------|--|--|--|--|
| | ○ Controller/Master | FPGA | r/IO Unit FPGA | | | | | | | |
| | File name: | e name: C:\Data\Documnetation\Release notes\Release 20210817\Central-I\Remotes\AGA102_8K_v4.0.1.rpd | | | | | | | | |
| | FPGA Version: | 4.0.1 | FPGA Size: | 8K | | | | | | |
| | Remote Type: | Amplifier | Sub-Type: | AGA102-CI | | | | | | |
| | Remote Variant: | NA | Amplifier Version: | NA | Comm Version: | NA | | | | |
| | Communication: | Auto (Ethernet), AGM800 | (172.1.1.101:50,000) | | | * | | | | |
| | Password: | 160412 | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| > | | | | | | | | | | |
| | Remote Unit target P | ort: A v Downlo | ad Remote FPGA | Allow Force Do | wnload (For expert us | e only!) | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Verification of FPGA version can be done in Central-I connection management screen.

| Central-i Connections Management | | | | | | | | | |
|----------------------------------|-----------------------|-------------|-------------|--|--|--|--|--|--|
| Show | Characteristic | A main | B main | | | | | | |
| ✓ A | Status: | Connected | Connected | | | | | | |
| ✔ B | | (10 MHz) | (10 MHz) | | | | | | |
| | Version: | 4.0.1 | 2.2.1 | | | | | | |
| | Comm/Amp. rev.: | 0x0/0x0 | 0x0/0x0 | | | | | | |
| ∐ D , | Variant/FPGA Size: | ??/8K | ??/NA (0) | | | | | | |
| E | Cont. current: | 8000mA | 8000mA | | | | | | |
| 🗌 F | Peak current: | 16000mA | 18000mA | | | | | | |
| G | Bus voltage: | 12.0V/55.0V | 12.0V/55.0V | | | | | | |
| ; | # Discrete inputs: | 8 | 9 | | | | | | |
| _ ; | # Discrete outputs: | 3 | 3 | | | | | | |
| L I . | # Isolated Dis. out.: | 2 | 2 | | | | | | |
| l l | Analog I/O: | 1/0 | 1/0 | | | | | | |
| 🗌 К | | | | | | | | | |
| 🗌 L | | | | | | | | | |
| | | | | | | | | | |



6.2 Standalone controls update procedure:

Standalone controls required updating both FW and FPGA, that is done by two steps. Table 3: Defines FW and FPGA file per product and its HW revision

| P/N | HW Rev | FW file name | FPGA file name |
|-------------------|-----------|--|-----------------------------|
| AGC300-ET-xx | Rev3 | AGD200orAGC300_2D05_V 1.6.0.0.hex | AGD200_03layout_v1.17.1.dat |
| | Rev4 | AGD200orAGC300_2D05_V 1.6.0.0.hex | AGD200_04layout_v1.17.1.dat |
| AGC301-ET-xx | all | AGD301orAGC301_2D05_V 1.6.0.0.hex | AGD301_v2.3.0.dat |
| AGD155-AF-2A06 | all | AGD155_2A06_V1.6.0.0.hex | AGD155_2A06_v2.5.0.dat |
| AGD155-AF-2A10 | all | AGD155_2A10_V1.6.0.0.hex | AGD155_2A10_v2.5.0.dat |
| AGD200-ET-xx | Rev3 | AGD200orAGC300_2D05_V 1.6.0.0.hex | AGD200_03layout_v1.17.1.dat |
| AGD200-ET-xx | Rev4 | AGD200orAGC300_2D05_V 1.6.0.0.hex | AGD200_04layout_v1.17.1.dat |
| AGD301-ET-2D05-xx | all | AGD301orAGC301_2D05_V 1.5.0.1-908 (ALPHA).hex | AGD301_v2.3.0.dat |
| AGD301-ET-2D09-xx | all | AGD301orAGC301_2D09_V | AGD301_v2.3.0.dat |
| | | | |

Table 4: Standalone controls FW/FPGA files

To update FPGA:

- First step is to identify the HW revision. It can be done in info screen or by checking product label.

| Current Control | | | Kill All Stop All Quick Commands | Floating Tools B axis Y Auto (Et | hemet), AGD301orAGC301 (172.1.1.101:50,000) × |
|--|---|--|---|----------------------------------|---|
| B | General, Trigger | Charts Setup | Graphs | Analysis | Manage |
| Pesition: 0 Welcity: 0 Pics error: Mole current: 0.0023 A Statu: to Mole in themaily The second in the seco | 1 | | | | |
| Wey protection Wennige 1: | 10.10-4.0 Actual.com 12 August 2021, 1258.56 Six sample Jack (Sthemet) Force Dox Bitment Force Dox Monte CAN/then 9000 CAN/then 9000 CAN/then 9000 CAN/then 9001 CAN/then 101 Montes 102 Huld States: 103 Sid-34 address: 104 Montes 103 Sid-34 address: 104 Montes 105 Sid-34 address: 106 Montes 107 Sid-34 address: 108 Montes 108 Montes | trailer, somesthing, info by the unit at power on) est mixed PW Off (DP SW 2) off (DP SW 3) off (DP SW 3) off-off-off off-off-off attrained sectors of the off-off-off 1000,000 32,055-455 (Johand) water tetter 115,200 rates: 1 tubes: 1 1000,000 32,055-455 (Johand) 32,055-455 (Johand) | User Diagram Info Contention 23037 Date: 22-08-21 File name: Sine Wave cupb2 Information: Replace this with information about yo Multiple info lines can be placed Date: Task # 11 main Task # 11 main Emman: Info Formal FW release. Checksum: 30206 | ur program | |
| Appin Connect Command Appin Connect Command Maximum Com | 2500 mA 2500 mA 2500 mV 300 mV 300 mV 1500 | 708105/754.68 30.000 | 04 05 | Damia | |
| Refresh All Apply All Prev Next | Auto Freeze Start Rec & Show Gra | ph (F5) Force Trigger Start Upload | Stop | | |
| Notifications (1) | × [] | | | | |

- Press "Manage" button and select "FPGA:



Browse



- Select "Controller/Master FPGA" radio button
- Chose FGPA file name according to Table 4, the file shall be copied to local disk.
- Select "connection", by default it will be Auto (Ethernet), AGDxxx (172.1.1.101:50,000)
- Set Password: 160412
- Press "Download FPGA" button

| ownload FPGA | | | | | | |
|---------------------------------------|---|---|---|--|--|--|
| Controller/Master | FPGA 🔘 Remote Ampli | fier/IO Unit FPGA | | | | |
| File name: | C:\Data\Documnetation | \Release notes\Release 20210817\Standalone\AGD301\FPGA\AGD301_v2.3.0.dat | \sim | | | |
| Version: | 2.3.0 | Modified: 9/14/2021 5:08:59 AM | | | | |
| Communication: | Auto (Ethernet), AGD301orAGC301 (172.1.1.101:50,000) | | | | | |
| Password: | 160412 | | | | | |
| FPGA file version: | 2.3.0 | | | | | |
| Controller FPGA versi | on: 2.1.2 | | | | | |
| Status: Download | ling FPGA data | | | | | |
| | | | | | | |
| Cancel | Download | FPGA | | | | |
| | | | | | | |
| | | | | | | |
| | Controller/Master File name: Version: Communication: Password: FPGA file version: Controller FPGA versi Status: Download Cancel | Controller/Master FPGA O Remote Amplii File name: C:\Data\Documnetation Version: 2.3.0 Communication: Auto (Ethernet), AGD30 Password: 160412 FPGA file version: 2.3.0 Controller FPGA version: 2.1.2 Status: Downloading FPGA data Cancel Download | Controller/Master FPGA Remote Amplifier/IO Unit FPGA File name: C:\Data\Documnetation\Release notes\Release 20210817\Standalone\AGD301\FPGA\AGD301_v2.3.0.dat Version: 2.3.0 Modified: 9/14/2021 5:08:59 AM Communication: Auto (Ethernet), AGD301orAGC301 (172.1.1.101:50,000) Password: 160412 FPGA file version: 2.3.0 Controller FPGA version: 2.1.2 Status: Downloading FPGA data | | | |

To update FW:

- Press "Manage" button and select "FW:

| oly and Next | Preview mod | le eze Start | Rec & Show Gr | aph (F5) | Force Trigger | Start Upload | St | PARM | Ctri + SHRT | 20 PREF | FW | FPGA |
|--------------|-------------|-----------------|---------------|----------|---|--------------|-------|--------|----------------|------------|----|------|
| CONFIG | × | | NOTION | 9 | FEEDBACK P & S = 1 P | PROGRAM | TOOLS | MANAGE | H | ? | | |

- Chose FW file name according to Table 4, the file shall be copied to local disk.
- Select "connection", by default it will be Auto (Ethernet), AGM800 (172.1.1.101:50,000)
- Set Password: 160412



- Press Download FW button

| 🐼 Agito PC | Suite v.10.5.0-4.0 | | | | | | | |
|--------------------------|-----------------------------|--|--|--|--|--|--|--|
| EW | Download Firmwar | | | | | | | |
| Favorite | File name: | C:\Data\Documnetation\Release notes\Release 20210817\Standalone\AGD301\FW\AGD301orAGC301_2D09_ V | | | | | | |
| | Version: | 1.5.0.1-908 (ALPHA) (AGD301orAGC301) Modified: 19 August 2021, 14:52:28 | | | | | | |
| | HEX file data: | | | | | | | |
| | | Product Type: AGD301orAGC301 FW version: 1.5.0.1-908 (ALPHA) Num of Axes: 3 Max ContCL: 12,750 mA Max PeakCL: 25,500 mA Current Full Scale: 32 A | | | | | | |
| | | Variant: Unknown | | | | | | |
| | | Special features: None | | | | | | |
| | | For ACD301, must be used with PGA version 2.1.3 or newer !! Will be published after tests as 1.6.0 | | | | | | |
| | Verify current rate | igs (not in boot, not for 'MASTER' products) | | | | | | |
| Recent | Communication: | Auto (Ethernet), AGD301orAGC301 (172.1.1.101:50,000) | | | | | | |
| | Password: | 160412 | | | | | | |
| FW | Firmware file versior | 1.5.0.1-908 (ALPHA) | | | | | | |
| | Controller firmware | rsion: 1.4.0 | | | | | | |
| FPGA | Status: Downloading FW data | | | | | | | |
| 2 1- 0-+ CURR | | | | | | | | |
| Œ | Cancel | Download Firmware Note: Recommended to consider parameters saving and/or uploading before downloading new firmware Note: The user program will be erased Note: The user program will be rased | | | | | | |
| PHAS | | | | | | | | |

The unit will be restarted automatically. You might want to download user programs and restore controller parameters.

For technical support and questions contact us by email: <u>agito.info@akribis-sys.com</u>