8100 Product Series
Firmware Release Notes

Remark

This document contains the firmware release notes for all products of the 8100 product series.

Changes

Product	Changes	Current firmware version	Previous firmware version
FG8101G01	-	v0108	v0108
FG8101G02	-	v0108	-
FG8701G01	-	v0900	-
FG8701G02	-	v0900	-
FG8701G03	-	v0900	-
FG8702G01	X	v0900	v0800
FG8702G02	X	v0900	v0800
FG8702G03	X	v0900	v0800
FG8702G04	X	v0900	v0800
FG8702G05	X	v0900	v0800
FG8702G06	X	v0900	v0800
FG8702G11	X	v0900	v0800
FG8702G12	X	v0900	v0800
FG8702G13	X	v0900	v0800
FG8702G14	X	v0900	v0800
FG8702G15	X	v0900	v0800
FG8800M00	X	v0900	v0800
FG8801F02	X	v0900	v0800
FG8801N02	X	v0900	v0800
FG8802S00	-	v0300	v0300
FG8802S01	-	v0300	v0300
FG8802S02	-	v0300	v0300
FG8802S20	-	v0300	v0300
FG8803S02	-	v0300	v0300
FG8803S20	-	v0300	v0300

FG8101Gxx Firmware Release Notes

Firmware Version	Changes
v0108	Improvement: Display representation while leap second event Improvement: Local time representation after a reboot
v0107	Improvement: Display shows "H" for holdover mode instead of "C" for crystal mode
v0106	Improvement: Changed display default configuration, to same behaviour as in v0104 Improvement: Support of different display behaviours (permanent on or timeout based)
v0105	Bugfix: Fixed issue with negative time zone offset on display
v0104	First released firmware version

FG870xGxx Firmware Release Notes

Firmware Version	Changes
v0900	Added: Support of FG8101G02
	Added: Support of FG8701G01, FG8701G02 and FG8701G03
	Added: Configurable event for successful user login (AC405)
	Added: SNMPv3 traps
	Added: Ignore UDP checksum, overwrite 0.0.0.0 source IP, enable VLAN ID appending, enable VLAN filter and PTP over PRP with 2 instances in PTP extended functionalities
	Added: Action for capturing network packets on ETH interfaces
	Added: Configuration of minimum needed satellites and minimum needed C/N0 in advanced satellites settings for GNSS
	Added: Sync source data of FG870xGxx has been added to display pages of FG8101G0x
	Improvement: Representation of GNSS reception quality. Satellite Quality is now represented as C/N0 in dBHz
	Improvement: Login names with format "name.surname" are permitted
	Improvement: Login names with only numbers are permitted
	Improvement: LDAP server certificates can be removed
	Bugfix: Network firewall rules for PTP with a PRP-interface were fixed
v0800	Added: FG8702G04, FG8702G05, FG8702G06, FG8702G11, FG8702G12, FG8702G13, FG8702G14 and FG8702G15 support
	Added: PTP v2.0 compatibility mode
	Added: Action to set current number of leap seconds
	Added: SNMP MIB values for GNSS2 (gnss2SatTracked, gnss2JammingState, gnss2SpoofingState, gnss2AntennaOpenDetected, gnss2AntennaShortCircuitDetected)
	Added: Status information about the current number of leap seconds

	Improvement: Additional information about network status (duplex, speed, auto-negotiation)
	Improvement: Remote IPs of firewall rules can be set with CIDR-notation
	Bugfix: huma®-access with PRP via RedBox fixed
	Bugfix: PTP with IPv4/E2E via PRP fixed
v0701	No changes, only firmware version increased
v0700	Added: Support of SINEC H1 time service (this feature requires an activation key)
	Added: Support for PTP Profile ITU-T G8275.1
	Improvement: PTP time service configuration per network interface
	Improvement: PTP time service output for UTC and arbitrary time in addition to TAI
	Improvement: Minimum sync accuracy configuration for PTP
	Improvement: SYSLOG support for up to 32 servers
	Improvement: SNMP v2 and v3 can now be enabled / disabled separately
	Improvement: Scalar values of the SNMP MIB can now be requested with trailing .0
	Improvement: SNMP boardsVarTable index can now be added at the end of the OID
	Improvement: SNMP MIB entries timeServiceNtpStratum, gnssAntennaOpenDetected and gnssAntennaShortCircuitDetected added
	Improvement: SNMP response time improved
	Improvement: NTP time service output configuration for UTC, STD or LOC
	Improvement: Support for increased number of 200 VLAN configurations
	Improvement: Improved representation of active events
	Improvement: PTP operation during simulation mode
	Bugfix: Removed possible problems in the leap second handling
	Bugfix: Removed a bug that caused problems, when DHCP was enabled but no DHCP server was reachable
v0601	Improvement: LED behaviour of FG8802S02 in huma®
v0600	Added: FG8801F02 support

	Added: NTS (RFC 8915) support
	Added: Trusted certificate support
	Improvement: Every "crystal" text changed to "holdover"
	Improvement: Update of card cover images
	Improvement: Antenna short circuit detection improved
v0502	Added: Synchronization Setting for stepping when offset >= 100ms
	Added: NTP Configuration - Holdover operation (Specific stratum while holdover, Always output NTP)
	Improvement: Set time is now also possible in normal operation mode (before it was only possible in simulation mode)
	Improvement: NTP behaviour with execute time jump
v0501	Added: FG8803S02 and FG8803S20 support
	Added: Immediate PTP service start configuration
	Added: PTP clock class 6 simulation mode
	Improvement: SNMPv3 MIB-2 Support
	Improvement: Removed 30s SNMP value caching
	Improvement: Feature to update whole system with one update file
v0201	Added DNS as service option in network firewall rules
	Bugfix: Fixed simulation mode issue
	Bugfix: Fixed RADIUS PAP with local as fallback
v0200	Added FG8802S00, FG8802S01, FG8802S02, FG8802S20 and FG8901P06 support
	Added GNSS firewall feature
	Added LI8100A04 and LI8100A05 support
	SIMATIC time service can now be configured for two broadcast addresses
	Reworked SNMP MIB
	Improved synchronization

	Improved bus communication
v0106	Bugfix: Fixed synchronisation issue
v0103	First released firmware version

FG8800M00 Firmware Release Notes

Firmware Version	Changes
v0900	Added: Support of FG8101G02 Added: Support of FG8701G01, FG8701G02 and FG8701G03 Added: Configurable event for successful user login (AC405) Added: SNMPv3 traps Added: Action for capturing network packets on ETH interfaces Added: Configuration of minimum needed satellites and minimum needed C/N0 in advanced satellites settings for GNSS Added: Sync source data of FG870xGxx has been added to display pages of FG8101G0x Improvement: Representation of GNSS reception quality. Satellite Quality is now represented as C/N0 in dBHz Improvement: Login names with format "name.surname" are permitted Improvement: Login names with only numbers are permitted Improvement: LDAP server certificates can be removed
v0800	Added: FG8702G04, FG8702G05, FG8702G06, FG8702G11, FG8702G12, FG8702G13, FG8702G14 and FG8702G15 support Added: SNMP MIB values for GNSS2 (gnss2SatTracked, gnss2JammingState, gnss2SpoofingState, gnss2AntennaOpenDetected, gnss2AntennaShortCircuitDetected) Added: Status information about the current number of leap seconds Improvement: Additional information about network status (duplex, speed, auto-negotiation) Improvement: Remote IPs of firewall rules can be set with CIDR-notation Bugfix: huma®-access with PRP via RedBox fixed
v0701	No changes, only firmware version increased
v0700	Added: Support of SINEC H1 time service (this feature requires an activation key)

	Improvement: SYSLOG support for up to 32 servers
	Improvement: SNMP v2 and v3 can now be enabled / disabled separately
	Improvement: Scalar values of the SNMP MIB can now be requested with trailing .0
	Improvement: SNMP boardsVarTable index can now be added at the end of the OID
	Improvement: SNMP MIB entries timeServiceNtpStratum, gnssAntennaOpenDetected and gnssAntennaShortCircuitDetected added
	Improvement: SNMP response time improved
	Improvement: NTP time service output configuration for UTC, STD or LOC
	Improvement: Support for increased number of 200 VLAN configurations
	Improvement: Improved representation of active events
	Bugfix: Removed possible problems in the leap second handling
	Bugfix: Removed a bug that caused problems, when DHCP was enabled but no DHCP server was reachable
v0601	Improvement: LED behaviour for FG8802S02 in huma®
v0600	Added: FG8801F02 support
	Added: NTS (RFC 8915) support
	Added: Trusted certificate support
	Added: Synchronization setting for stepping when offset >= 100ms
	Improvement: Every "crystal" text changed to "holdover"
	Improvement: Update of card cover images
v0501	First released firmware version

FG8801F02 Firmware Release Notes

Firmware Version	Changes
v0900	Added: Ignore UDP checksum, overwrite 0.0.0.0 source IP, enable VLAN ID appending, enable VLAN filter and PTP over PRP with 2 instances in PTP extended functionalities Added: Action for capturing network packets on ETH interfaces
v0800	Added: PTP v2.0 compatibility mode Added: Status information about the current number of leap seconds Improvement: Additional information about network status (duplex, speed, auto-negotiation) Improvement: Remote IPs of firewall rules can be set with CIDR-notation Bugfix: Uplink-detection of FG9000F02 SFP-module after power reset fixed Bugfix: PTP with IPv4/E2E via PRP fixed
v0701	Bugfix: hopf FG9000F02 support
v0700	Added: Support for 100Mbit SFP modules Added: Support of SINEC H1 time service (this feature requires an activation key) Added: Support for PTP Profile ITU-T G8275.1 Improvement: PTP time service configuration per network interface Improvement: PTP time service output for UTC and arbitrary time in addition to TAI Improvement: Minimum sync accuracy configuration for PTP Improvement: NTP time service output configuration for UTC, STD or LOC Improvement: Support for increased number of 200 VLAN configurations Improvement: Improved representation of active events Improvement: PTP operation during simulation mode Bugfix: Removed possible problems in the leap second handling

	Bugfix: Removed a bug that caused problems, when DHCP was enabled but no DHCP server was reachable
v0601	No changes, only firmware version increased
v0600	First released firmware version

FG8801N02 Firmware Release Notes

Firmware Version	Changes
v0900	Added: Ignore UDP checksum, overwrite 0.0.0.0 source IP, enable VLAN ID appending, enable VLAN filter and PTP over PRP with 2 instances in PTP extended functionalities Added: Action for capturing network packets on ETH interfaces
v0800	Added: PTP v2.0 compatibility mode Added: Status information about the current number of leap seconds Improvement: Additional information about network status (duplex, speed, auto-negotiation) Improvement: Remote IPs of firewall rules can be set with CIDR-notation Bugfix: PTP with IPv4/E2E via PRP fixed
v0701	No changes, only firmware version increased
v0700	Added: Support of SINEC H1 time service (this feature requires an activation key) Added: Support for PTP Profile ITU-T G8275.1 Improvement: PTP time service configuration per network interface Improvement: PTP time service output for UTC and arbitrary time in addition to TAI Improvement: Minimum sync accuracy configuration for PTP Improvement: NTP time service output configuration for UTC, STD or LOC Improvement: Support for increased number of 200 VLAN configurations Improvement: Improved representation of active events Improvement: PTP operation during simulation mode Bugfix: Removed possible problems in the leap second handling Bugfix: Removed a bug that caused problems, when DHCP was enabled but no DHCP server was reachable
v0601	No changes, only firmware version increased

v0600	Added: NTS (RFC 8915) support
	Added: Trusted certificate support
	Added: Synchronization setting for stepping when offset >= 100ms
v0502	Added: NTP Configuration - Holdover operation (Specific stratum while holdover, Always output NTP)
	Improvement: NTP behaviour with execute time jump
v0501	Improvement: Internal communication improved
	Added: Immediate PTP service start configuration
	Added: PTP clock class 6 simulation mode
v0201	Added DNS as service option in network firewall rules
v0200	SIMATIC time service can now be configured for two broadcast addresses
	Events and alarms are forwarded to the management board for distribution
	Improved synchronization
	Improved bus communication
v0106	Bugfix: Fixed synchronisation issue
v0104	First released firmware version

FG8802Sxx Firmware Release Notes

Firmware Version	Changes
v0300	Added: DCF output with optional SIMEAS R modification Added: Status information about the current number of leap seconds Improvement: Leap second behaviour
v0200	Added: Synchronization setting for stepping when offset >= 100ms Improvement: Overcurrent detection improved
v0100	First released firmware version

FG8803Sxx Firmware Release Notes

Firmware Version	Changes
v0300	Added: Support of ION 7550 string Added: Status information about the current number of leap seconds Improvement: Leap second behaviour
v0200	Added: Synchronization setting for stepping when offset >= 100ms Bugfix: Statusbits in Hopf Time Universal string adjusted Bugfix: Character 25 in SAT1703 string adjusted Bugfix: Characters 13 and 14 in IEC-103 string adjusted
v0100	First released firmware version