Release Information

Anybus Communicator

This release contains:

Type	File/Subcomponents	Label	File updated in this release
This document	-	-	Yes
HIFF file	ABC_PIR_SERM_7741_1_04_02_HmsOtgw.hiff	7741_1.04.02	Yes
	SW	7741_2.10.01	Yes
	HDL	7741_3.03.01	Yes
	WEB	7741B_2.12.01	Yes
	FWLoaderDS	7044_1.20.01	No

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Reason for release:

Bug fixes

Affected functionality

		Description
Affected functionality	☐ Network conformity ☒ Web interface ☒ Network interface ☐ Security ☒ Stability ☐ Other	Bug fixes

Field update recommendation

		Description
Field update recommendation	☐ Update required for conformance testing ☒ Only devices in the field showing problems ☐ All devices in the field	

Compatibility:

Hardware

Firmware can be downloaded to Anybus Communicator hardware with serial and ethernet interfaces.

PCB	Compatible?	Hardware-ID (48 bits)
8519-1.1.1	Compatible	0x090003060000
8519-1.1.1	Compatible	0x090003060001

Device description file (DDF)

GSDML file for PROFINET

GSDML	Firmware	Description
GSDML-V2.35-HMS-Anybus-Communicator-20211108.xml	1.00 and newer	

How to upgrade from previous versions:

It is very important that the following steps are performed in correct order, otherwise the module may be unusable and must be sent back to HMS for recover.

Firmware upgrade:

Via Web configuration interface.

1. Disconnect all cables to all networks interfaces except the configuration port of the gateway.

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2. Make sure the configuration port is connected to the same network as the device performing the firmware upgrade.

3. Start up gateway.

4. The default IP settings of the gateway is IP address: 192.168.0.10, Subnet mask: 255.255.255.0. If these values cannot be used in the setup or if the IP settings have changed and is unknown, then the HMS IPconfig tool can be used to change IP settings of the gateway. The tool is located on https://anybus.com/.

5. Open up a webbrowser and enter the IP address of the gateway.

6. Click on the "Maintenance"->"Files & Firmware" and follow the instructions on the webpage.

Known limitations:

Title	Description	Issue(s)
Config port network settings.	The DNS1 and DNS2 settings are not applied correctly when modified using HMS IPconfig. Recommended workaround is to not change these fields.	A7741B-443

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7741 - Anybus Communicator
Application
Version 1.04
202206

Updated in version 1.04:

Title	Category	Description	Issue(s)
WEB	Bug fix	Updated support link.	A7741A-1455
Serial	Bug fix	Corrected issue with full-duplex in RS-232 mode.	A7741D-2
Platform	Bug fix	Hostname configured using IPconfig will now remain after a power-cycle.	A8091-10

Updated in version 1.03:

Title	Category	Description	Issue(s)
WEB	New functionality	Added OT monitor.	A7741A-1447
WEB	Other change	Changed logo to use an svg-image instead of .png.	A7741A-1452
Serial	Improved functionality	De-assert the DE signal more accurately for RS485.	A7741D-3 A8084-20
Platform	Bug fix	The Hostname settings were not applied correctly when modified using HMS IPconfig.	A7741B-442
Platform	Bug fix	IP address could still be used for existing TCP connections while a new IP address was being requested from a DHCP server.	A8074-58
Platform	Bug fix	DHCP removed server id for INIT-REBOOT/RENEWING/REBINDING state.	A8074-56
Platform	Bug fix	Fixed problem that could cause the module to crash (FATAL) if web pages are constantly being refreshed.	A8024-78
Serial	Bug fix	Fixed a startup failure when RS485 lines A and B were swapped.	A8084-19
PROFINET	Bug fix	When a IOCAR connection is lost the state is now changed to WAIT_PROCESS instead of ERROR.	A8083-7
PROFINET	Bug fix	Fixed an issue that could cause the device to remain in state IDLE or PROCESS_ACTIVE after a graceful connection tear-down by the controller.	A8027-481
PROFINET	Bug fix	Fixed size validation in SNMP SET implementation making giving a "tooBig" response if value is too big.	A8027-482
PROFINET	Improved functionality	Improved network performance during high network load.	A8027-480 A8074-53
PROFINET	Bug fix	Fixed bug that could cause record "read qury" to fail.	A8027-472
PROFINET	Bug fix	Now respects the MustRecvFragSize of 1464 bytes when transmitting.	A8027-464
WEB	New functionality	Timeout time for a node is possible to disable.	A7741A-1407
WEB	Bug fix	Arrow (->) in endian swaps not shown correctly in Safari/Apple.	A7741A-1419
WEB	Bug fix	Corrected incorrect width of the Event log page.	A7741A-1420
WEB	Bug fix	Removed I/O size for serial network on the Home view.	A7741A-1433
WEB	Bug fix	Changed so that branding colors are read from branding css-file.	A7741A-1434
WEB	Bug fix	Added bundling of Roboto font.	A7741A-1435
WEB	Bug fix	The serial log column for errors is consistently titled "Errors".	A7741A-7399

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Title	Category	Description	Issue(s)
WEB	Bug fix	Added translation for min/max I/O size error.	A7741A-1402

Updated in version 1.02:

Title	Category	Description	Issue(s)
Firmware package	New functionality	Support for Hardware-Id 0x090003060001	A7741G-4

Updated in version 1.01:

Title	Category	Description	Issue(s)
PROFINET Conformance	Bug fix	Fix conformance on PROFINET.	A7741B-543
PROFINET deadlock	Bug fix	Fixed a deadlock that could occur during power-on if the IP-settings was changed to DHCP using the Web UI after a static IP configuration was assigned from the PROFINET PLC.	A8083-6
WEB	Bug fix	Incorrect gateway configuration handling.	A7741A-1401
Embedded firmware	Bug fix	Fixed an issue that caused the device to identify itself incorrectly after a factory reset until the device was configured.	A7741B-561
Serial	New functionality	Added support for 7 data bits serial transmission.	A8084-16
Serial	Bug fix	Produce only node is when not stopped always considered online in LiveList, webpages and in LED state evaluation.	A8084-17 A7741B-545
Serial	New functionality	It is now possible to set offline options in a transaction, continue or pause.	A8084-18
WEB	Improved functionality	Added error information to the serial log.	A7741A-1384
WEB	New functionality	Offline option can be configured for a transaction.	A7741A-1393
WEB	Bug fix	Fixed problem with buttons not showing on Error dialog in production environment.	A7741A-1394
WEB	Bug fix	Uses default config if config cannot be read (or is empty) when doing revert.	A7741A-1395
WEB	Improved functionality	Added time stamp to the file names.	A7741-620
WEB	New functionality	Added support for import of Anybus Communicator Classic configurations.	A7741A-848
WEB	Improved functionality	Changed so that on Apply there are no confirmations of IP, Station name and PROFIBUS address settings. On page load the IP-settings read from the API are not set to store if there is no link for the OT-network.	A7741A-1365
WEB	Improved functionality	Indicate No link on home view when link is lost.	A7741A-1331
WEB	Bug fix	Fixed I/O-mapping reallocation when trigger/ack/nack is unmapped or changed.	A7741A-1272

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Title	Category	Description	Issue(s)
WEB	New functionality	Improved the error message when updating firmware.	A7741A-1303
WEB	Improved functionality	Added a tooltip explaining the namur icon for the nodes for the home overview.	A7741A-1305
WEB	Bug fix	The selected table index is also updated if a trigger, acknowledgement or negative acknowledgement is selected, not only if a data or variable data entry is selected in the I/O mapping tables.	A7741A-1319
WEB	Bug fix	Corrected so that data-fields reading from the General area does not have any swapping option.	A7741A-1319
WEB	New functionality	Added support for brand labeling of the GUI. Any file can be replaced but only CSS, images, logotype and support information is fully supported.	A7741A-1339
WEB	Improved functionality	Updated indicating of the error message on home page.	A7741A-1339
WEB	Improved functionality	Updated indicating of the error message on home page.	A7741A-1340
WEB	New functionality	Added export/import of a node to/from file.	A7741A-1341
WEB	New functionality	Now it is possible to import/export transaction templates.	A7741A-1342
WEB	Bug fix	When creating a custom template based on one of those Modbus commands, these frame objects are now changed in the new template to become mappable, allowing the user of the template to map them if so desired.	A7741A-1347
WEB	Improved functionality	Set RS484 as serial protocol if an Anybus Communicator Classic configuration with RS422 is imported.	A7741A-1349
WEB	Bug fix	Fixed problem when Importing Master mode Communicator Classic config when Custom Produce/Consume is used.	A7741A-1349
WEB	Other change	Increased width of node-status container on the Home-screen.	A7741A-1355
WEB	Bug fix	"No scanning" is no longer a valid option for frame objects in the general area.	A7741A-1374
WEB	Bug fix	Corrected so that the IP-address/station name and/or PROFIBUS address can be set after the configuration file is written.	A7741A-1379
WEB	Bug fix	Changed so that the minimum update time is 3ms for Modbus as well.	A7741A-1381

Updated in version 1.00:

Title	Category	Description	Issue(s)
PROFINET	New functionality	PROFINET network connectivity.	A7741B-540

Bugs that are found in this software release should be reported back to HMS support department. Report product, software version, configuration, how to reproduce behaviour, and the effects of the bug.