Anybus CompactCom 40 Security Data Sheet

Document owner: HMS Product Security (PSIRT)
Applies to: Anybus CompactCom 40 (Standard variants)
Version: 1.0
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This Security Data Sheet provides a condensed overview of the security functions of the Anybus CompactCom 40 standard variants. Additional security guidance is also available in the Anybus Embedded Security Guide.
It supplements the product information and user manuals available on the product pages at hms-networks.com.

Application scope

Applies to Anybus CompactCom 40 Standard variants and included protocols
Formats: Module (M40), Brick (B40) and Brick Mini (B40 Mini)

Product Identification

Attribute	Internal
Device type	- Physical label on the device - via Anybus API - via the integrated webserver - through specific protocol object
Product code/network	- Physical label on the device - via Anybus API - via the integrated webserver - through specific protocol object
Software version	- Physical label on the device - via Anybus API - via the integrated webserver - through specific protocol object
Hardware version	- Printed on PCB
MAC address	- Physical label on the device - via Anybus API - via the integrated webserver - through specific protocol object
Serial number	- Physical label on the device - via Anybus API - via the integrated webserver - through specific protocol object

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Product Intended Use

Anybus CompactCom 40 standard products are components that, once integrated into industrial devices, enable these devices to communicate on an industrial network. Device manufacturers integrating the Anybus CompactCom component are responsible for implementing and maintaining the overall device security strategy and compliance to regulations. Unless specified by manufacturer integration, Anybus CompactCom 40 standard products are intended to be used for communication with OT controllers, in restricted access locations and in trusted networks as defined below.

Trusted network: Dedicated and segmented network zones, isolated from untrusted or general purpose networks.

Access limited to authorized personnel: Only personnel with valid security clearance and appropriate access levels are permitted to access or modify the network and its interfaces.

Product Interfaces

Type	No. of ports	Default mode	Can be changed	Comment
Network interfaces				
Ethernet Ports PIR, EIP, EIT, ECT, EPL, CFN, CIET, BIP)	2	Active	Yes, only on PIR, EIP, EIT	If possible disable unused ports
RS485 (DPV1, CCL)	1	Active	No	
CAN (DEV, COP)	1	Active	No	
Host interfaces				
Anybus Host API	1	Active	Yes	Anybus Host API is an internal device interface and is either on SPI, Serial or Parallel interfaces
RMII*	1	Inactive	Yes	*RMII only valid for dedicated variants. Transparent communication between network & Host application. No security measure applied, responsibility is on host application.
Other interfaces				
JTAG	1	Inactive	No	Internal HMS use

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Network services and ports

Function	Port	Protocol	Default	Can be changed	Comment
Industrial protocols					
PROFINET	34962	Ethertype layer2	Active	No	Cyclic I/O data
PROFINET	34962/ 34963/ 34964/ 34980	UDP	Active	No	RPC/Alarm/DCP/LLDP
EtherNet/IP	2222	UDP	Active	No	Cyclic I/O data
EtherNet/IP	44818	TCP/UDP	Active	No	Common services CIP
Modbus-TCP	502	TCP/UDP	Active	No	Cyclic I/O data
EtherCAT	34980	Ethertype layer2	Active	No	Cyclic I/O data
CC-link IE TSN	35087	Ethertype layer2	Active	No	Cyclic I/O data
CC-Link IE TSN	45237/ 45238/ 45239/ 61440/ 61443	UDP	Active	No	Acyclic ser-vices/diagnostics
CC-link IE Field	35087	Ethertype layer2	Active	No	Cyclic I/O data
POWERLINK	34987	Ethertype layer2	Active	No	Cyclic I/O data
BACnet/IP	47808	UDP	Active	No	Cyclic I/O data
HTTP server	80	TCP	Active	Yes	Unsecure web access. Disable if unused.
FTP Serv-er	20/21	TCP	Active	Yes	Unsecure File Transfer Protocol. Disable if unused. Must be enabled for firmware update
SMTP client	25	TCP	Inactive	Yes	Unsecure Email
SNMP cli-ent	161	UDP	Active	No	Simple Network Man-agement Protocol. Only valid on PROFINET.
SHICP	3250	UDP	Active	Yes	HMS IP Config tool. Create password
BOOTP/DHCP	67/68	UDP	Active	Yes	Inactive by default on PROFINET
NTP Server	123	UDP	Inactive	Yes	Network Time Proto-col (see Design Guide for supported networks.)

Component access functions

Type:	No. of ports	Default mode	Can be changed
Login & Password	Inactive	Yes	Admin account should be setup at the first access. Password can be configured for different users. Hashed password storage.
User Management	Inactive	Yes	Central User and Role management. 2 default roles (administrator, and user) and possibility to add personalized roles. Access permissions (Webserver, FTP).

Software and data

Function	Default mode	Comment
Firmware update	By request	FW update via WebDAV is supported, or through the Firm-ware Manager Tool.
Syslog	Not supported	Functionality planned for future versions.

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Software Update Policy

Firmware updates are available on requests from HMS Networks directly.
Firmware updates via File Transfer Protocol is supported, or through the Firmware Manager Tool. FTP needs to be enabled. The Anybus CompactCom 40 can also be updated via the application interface from the device, or via the Anybus CompactCom 40 StarterKit.
To prevent unauthorized or malicious code from being downloaded, the Anybus CompactCom 40 only accepts firmware that has been digitally signed by HMS Networks.

Security Posture Summary

The Anybus CompactCom 40 is available as standard variants with the focus on OT communication and as IIoT & Secure version with additional IT protocol support and extended security capabilities on IT functionalities. For applications with higher security requirements, the use of the IIoT Secure variant is suggested and our Anybus Common Interface makes the transition easy. For more information please refer to the security datasheet of the Anybus CompactCom IIoT Secure.

Recommended device hardening:

- Disable unused Ethernet ports on supported variants.
- Close or restrict services not used by the host application (e.g., SNMP, FTP, HTTP).
- If active, make sure the authentication (users and passwords) is defined.
- Keep firmware up to date.

For further guidance, please refer to the Anybus Embedded Security Guide.

Revision history

Version	Date	Description
1.0	2025-11-06	

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