

Defender 8029 AC/DC

Industrial Firewall - 19" Rack Mount

The Anybus Defender is an advanced industrial security appliance engineered to provide unparalleled protection for operational technology (OT) networks. Featuring a robust combination of NAT, Routing, Deep Packet Inspection (DPI), and VPN Server and Client functionalities, it serves as a cornerstone for safeguarding critical infrastructure against a myriad of cyber threats.



Key use cases:

- **OT/IT Segregation:** Enforce strict policies for domain separation.
- **Address Conflict Avoidance:** Manage IP addresses efficiently through implementation of Network Address Translation (NAT) and routing scenarios.
- **Deep Packet Inspection:** Ensure security of industrial protocols.
- **IEC62443 Compliance:** Implement security zones and conduits according to industry standards for precise machine isolation.
- **Secure Plant-to-Plant OT Connections:** Establish encrypted links between facilities using WireGuard®, OpenSSL, and IPsec Virtual Private Network (VPN) protocols, the Defender 1U Rack Mount functions excellently as a Hub or Spoke.

Extensive connectivity

1x WAN and 8x LAN RJ-45 Gigabit Ethernet ports plus 2 SFP ports for fiber optic or copper connectivity. All ports are separate segments.



Choice of power

Rack mount units come with a choice of 100~240V AC Power or 24V DC Power to enable a smooth fit in either a datacenter, shop floor or office environment.



Product selection

Article nr:	Description:
ABD8029-AC-PROFW	Anybus Defender Industrial Firewall - 19" 1U 100~240V AC Power - 2x 1Gbit SFP + 9x 1Gbit RJ45 - PRO/FW Perpetual License inc. 3Y support
ABD8029-DC-PROFW	Anybus Defender Industrial Firewall - 19" 1U 24V DC Power - 2x 1Gbit SFP + 9x 1Gbit RJ45 - PRO/FW Perpetual License inc. 3Y support

Perpetual License

The Anybus Defender comes pre-configured with PRO licensed options to meet your use-cases:

- **PRO/FW:** for network segmentation and translation, + Virtual Patching of legacy devices and granular Access Control with policy management of industrial protocol transactions + Advanced VPN (WireGuard, OpenSSL & IPsec), Traffic shaping and routing functions & high availability capability

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Advanced Router and Firewall

1x WAN and 8x LAN RJ-45 Gigabit

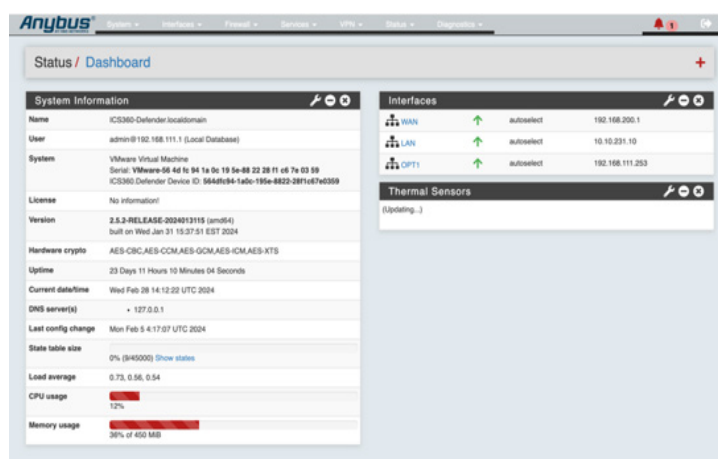
Ethernet ports plus 2 SFP ports for fibre optic connectivity,, all in a Rugged Fan-less IP20 construction for tough environments. Configurable in transparent bridge mode or NAT/Routing mode. Full IPv4 and IPv6 compatibility including DHCP Server, Relay, PPPoE, IGMP Proxy and support for RIPv1 & v2, BGPv4 routing protocols. Supports Rules/policy scheduling and Application and URL whitelisting.



Graphical User Interface (GUI)

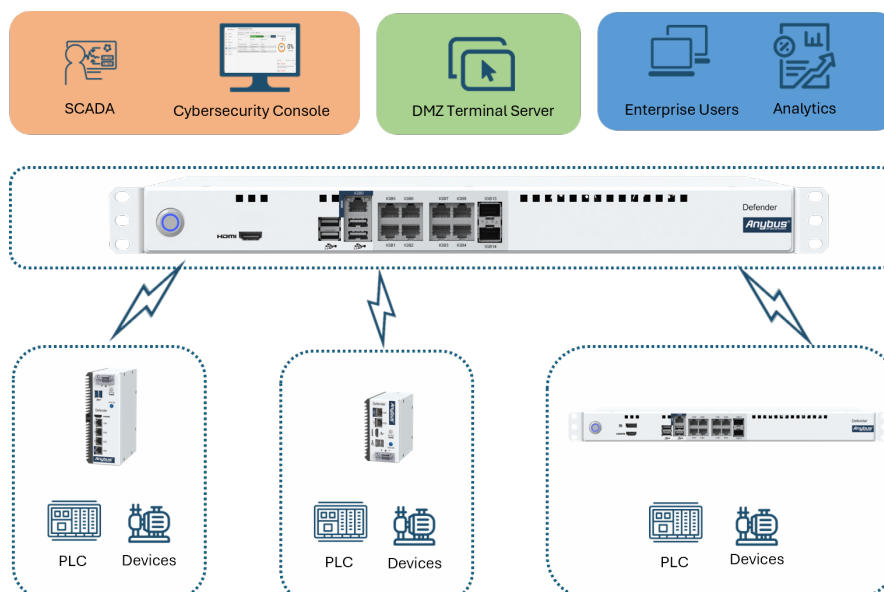
Configuration via on board Web interface with use-case wizards for easy configuration. Create rules effortlessly with One-Click Easy Rule creation directly from firewall logs, alongside Floating Rules applicable across all interfaces. Benefit from rich debug and traffic diagnostics capabilities, complemented by an integrated Restful API for seamless integration with higher-level systems. Additionally, gain access to CLI SSH/Console for maintenance tasks.

Optional: Central Anybus Cybersecurity Console for management of a group of Defenders.



Secure Plant-to-Plant OT Connections

In operational environments spread across large geographical areas, secure and reliable connectivity is crucial. The Anybus Defender is equipped with built-in Virtual Private Networking (VPN) capabilities, supporting standard protocols such as IPsec and OpenVPN, as well as the newer WireGuard[®] standard for enhanced, reliable, and swift secure connectivity. It features a dual WAN port setup for redundancy, advanced routing protocol support including BGP4, and traffic shaping tools to precisely manage and allocate bandwidth. Together, these features provide all the necessary tools to construct a secure, software-defined wide area network (SD-WAN) tailored specifically for operational environments. Additionally, the Central Anybus Cybersecurity Console offers an optional management platform for overseeing a network of Defenders and configuring remote users, enhancing control and oversight across the network.



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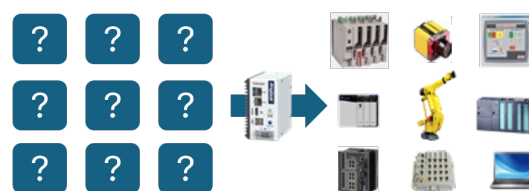
Rich Network Security Controls



Anybus Defenders uphold a Deny by Default policy, ensuring that all network communication traffic is prohibited unless explicitly permitted by the system in both inbound and outbound directions. Simplified NAT Configuration facilitates the setup for single or multiple IP addresses, subnets, or transparent layer 2 firewalling, capable of bridging interfaces and filtering traffic. Enjoy seamless high-throughput Deep Packet Inspection (DPI) for common industrial protocols, supported by an intuitive user interface equipped with auto-learn capabilities to minimize manual rule creation. Integrated of Snort and Suricata, the Defenders offer robust Intrusion Protection capabilities, allowing for virtual patching scenarios. Monitoring and reporting functionalities include Arp and bandwidth monitoring accessible through API. Standard features encompass email reports, syslog integration, and integration with Telegram Messenger as well as Pushover Notifications, while optional NetFlow integration provides additional integration options.

Asset Discovery & Inventory

The platform incorporates a specialized network asset identification scanner meticulously tailored for OT/ICS devices, offering comprehensive visibility into connected assets. Utilizing a range of industrial-specific protocols and methodologies, it seamlessly discovers, queries, and identifies assets within the network. Extracted information includes crucial details such as make, type, software version, patch level, and serial number, accompanied by an accuracy score for reliability assessment. Accessible through the intuitive Web GUI or centrally propagated to the optional Central Anybus Cybersecurity Console, this information empowers users with actionable insights for enhanced network management and security.



Features License Type	NAT/FW	DPI/FW	PRO/FW
Simple NAT Wizard, 1:1, 1:∞	✓	✓	✓
Stateful Firewall	✓	✓	✓
Transparent/Bridge Mode	✓	✓	✓
Certificate Management	✓	✓	✓
Central Anybus Cybersecurity Console Support	✓	✓	✓
Asset Discovery & Inventory	✓	✓	✓
Email, Syslog, Telegram Messenger and Pushover Notifications	✓	✓	✓
Remote Client VPN		✓	✓
RADIUS, LDAP/AD Authentication		✓	✓
Industrial Protocol DPI with traffic analyser to learn traffic and allow easy config (Ethernet/IP CIP & Modbus)		✓	✓
Virtual Patching through IPS (Snort, Suricata)		✓*	✓*
WireGuard*, OpenSSL & IPsec VPN		✓	✓
DHCP Server & DHCP Forwarding		✓	✓
Rules/Policy Scheduler (by date/time/duration)		✓	✓
Captive Portal			✓
RIPv1 & v2, BGPv4 routing protocols			✓*
Load Balancing, Multi-WAN			✓
Traffic Shaping			✓
High Availability Redundancy			✓

* Installed through optional package.

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General

Dimensions with connectors	482,1 x 334,0 x 44,5 mm / 18,98 x 13,15 x 1,75 inch
Weight	2500 gr, 5.6 lbs.
IP rating	IP20 construction
Housing material	Metal enclosure
Mounting	19" Rack Mount
Operating temperature	0°-50°C 32°-122°F
Humidity	Non-Condensing 20%- 80%
Configuration	Via Web interface locally or optional Anybus Cybersecurity Console capable of managing several Defenders simultaneously. CLI SSH/Console access for maintenance tasks.
Certification	CE, 2011/65/EU (RoHS)

Power

Input voltage	100~240V AC or 24V DC Power Entry
Current consumption	40 Watts (based on maximum ratings)

Network interfaces

WAN	One (1) RJ45 Gigabit Ethernet
LAN*	Eight (8) RJ45 Gigabit Ethernet ports Two (2) SFP ports providing the choice of 1Gig fibre (multi-mode or single-mode) or copper
*All ports are individually configurable and can be reconfigured as a primary or 2nd WAN port for appropriate use-cases.	

Software Specifications

Operating Modes	Transparent Bridge / Gateway mode
Choice of security license	PRO/FW
License type	Perpetual
Warranty	3 years support and warranty included

