



ICS360.DEFENDER 1U



ICS360.DEFENDER 1U | Industrial Rack Mount Security Appliance

DYNICS ICS360.Defender 1U is an Industrial Control System Security Appliance hosting the ICS360.Defender Security platform from DYNICS. The compact hardware is capable of a Firewall with Deep Packet Inspection, VPN Server and Client, and so much more! ICS360.Defender supports popular Industry standard protocols and can auto-learn industrial network traffic to minimize manual rule creation. The 1U chassis can act as an 8-Port Switch or Router in conjunction along with all the other great features mentioned.

- ICS360.DEFENDER pre-loaded (see chart for Version & Feature Selection)
- Fan-less (No Moving Parts)
- IP20 Construction
- 8x RJ45 10/100/1000 Mbps + 2x SFP 1Gbps **OR** 8x RJ45 10/100/1000 Mbps + 2x SFP 1Gbps + 4x SFP+ Ports
- 100~240VAC / 24VDC Power Entry
- Available in Standard and High-Performance Models, See Part Number Details

HARDWARE SPECIFICATIONS

COMPUTER I/O	
VGA Port	1x
USB 2.0 Ports	2x
USB 3.0 Ports	2x
NICS	8x RJ45 10/100/1000 Mbps + 2x SFP 1Gbps
POWER SUPPLY	100~240VAC / 24VDC Power Entry
TEMPERATURE	Operating: 0°-50°C 32°-122°F Non-Operating: -25°-60°C -13°-140°F
RELATIVE HUMIDITY	Non-Condensing: 20% - 80%
SHOCK RESISTANCE	Operating: 10G Non-Operating: 15G
VIBRATION	Operating: 1.0G from 57~2000Hz Non-Operating: 2.5G from 57~2000Hz
ALTITUDE	Max altitude of 2,000 meters
INCLUDED	1x 6ft. US Power Cord (AC Only) 1x Standard CR3032 Lithium Battery
COMPLIANCE	European Union Directive 2011/65/EU (RoHS)
WARRANTY	24-Month limited warranty. Extended warranty available, contact DYNICS for more details.
TECHNICAL SUPPORT & MAINTENANCE	Available, Renews Yearly, Contact DYNICS for details.

DIMENSIONS, WEIGHT AND POWER CONSUMPTION

HEIGHT	1.75" (44.5mm)
WIDTH	18.98" (482.1mm)
DEPTH	13.15" (334.0mm)
WEIGHT	5.6 lbs. (2.5 kg)
POWER CONSUMPTION	AC / DC: 40 Watts**

* Weights are approximate, contact DYNICS for details.

** Power consumption is based on maximum ratings, actual ratings vary significantly based on components used.





PART NUMBER INFORMATION

Optional Standard Performance Models Available with AC or DC Power Entry

ICS360.Defender Appliance Series			Optional Annual Technical Support & Maintenance	
Part Number	Description	License Type		Part Number
Each ICS360.Defender Product must be quoted with Optional Annual Technical Support & Maintenance and renewed annually				
ICSDEF-1U82XXB1-SNT	(See Hardware Spec, Page 1)	SIMPLE-NAT	+	TS&M-1U82XXB1-SNT
ICSDEF-1U82XXB1-NAT	(See Hardware Spec, Page 1)	NAT	+	TS&M-1U82XXB1-NAT
ICSDEF-1U82XXB1-VPN	(See Hardware Spec, Page 1)	VPN	+	TS&M-1U82XXB1-VPN
ICSDEF-1U82XXB1-LIT	(See Hardware Spec, Page 1)	LITE	+	TS&M-1U82XXB1-LIT
ICSDEF-1U82XXB1-DLT	(See Hardware Spec, Page 1)	LITE/DPI	+	TS&M-1U82XXB1-DLT
ICSDEF-1U82XXB1-PRO	(See Hardware Spec, Page 1)	PRO	+	TS&M-1U82XXB1-PRO
ICSDEF-1U82XDB1-SNT	(See Hardware Spec, Page 1)	SIMPLE-NAT	+	TS&M-1U82XDB1-SNT
ICSDEF-1U82XDB1-NAT	(See Hardware Spec, Page 1)	NAT	+	TS&M-1U82XDB1-NAT
ICSDEF-1U82XDB1-VPN	(See Hardware Spec, Page 1)	VPN	+	TS&M-1U82XDB1-VPN
ICSDEF-1U82XDB1-LIT	(See Hardware Spec, Page 1)	LITE	+	TS&M-1U82XDB1-LIT
ICSDEF-1U82XDB1-DLT	(See Hardware Spec, Page 1)	LITE/DPI	+	TS&M-1U82XDB1-DLT
ICSDEF-1U82XDB1-PRO	(See Hardware Spec, Page 1)	PRO	+	TS&M-1U82XDB1-PRO



PART NUMBER INFORMATION, CONTINUED



Optional High-Performance Models Available with AC or DC Power Entry

ICS360.Defender Appliance Series			Optional Annual Technical Support & Maintenance	
Part Number	Description	License Type	Part Number	
Each ICS360.Defender Product must be quoted with Optional Annual Technical Support & Maintenance and renewed annually				
AC: ICSDEF-1U82XXB5-LIT DC: ICSDEF-1U82XDB5-LIT	(See Hardware Spec, Page 1)	LITE	+	AC: TS&M-1U82XXB5-LIT DC: TS&M-1U82XDB5-LIT
AC: ICSDEF-1U82XXB5-DLT DC: ICSDEF-1U82XDB5-DLT	(See Hardware Spec, Page 1)	LITE/DPI	+	AC: TS&M-1U82XXB5-DLT DC: TS&M-1U82XDB5-DLT
AC: ICSDEF-1U82XXB5-PRO DC: ICSDEF-1U82XDB5-PRO	(See Hardware Spec, Page 1)	PRO	+	AC: TS&M-1U82XXB5-PRO DC: TS&M-1U82XDB5-PRO

DPI Monitoring and Reporting
Deep Packet Inspection
NAT Network Address Translation
VPN Virtual Private Network
Redundancy
GUI Control
Supplier Access



PART NUMBER INFORMATION, CONTINUED



Optional Standard Performance Models Including Additional 4x SFP+ Ports, Available with AC or DC Power Entry

ICS360.Defender Appliance Series			Optional Annual Technical Support & Maintenance	
Part Number	Description	License Type		Part Number
Each ICS360.Defender Product must be quoted with Optional Annual Technical Support & Maintenance and renewed annually				
AC: ICSDEF-1U824XB1-LIT DC: ICSDEF-1U824DB1-LIT	(See Hardware Spec, Page 1)	LITE	+	AC: TS&M-1U824XB1-LIT DC: TS&M-1U824DB1-LIT
AC: ICSDEF-1U824XB1-DLT DC: ICSDEF-1U824DB1-DLT	(See Hardware Spec, Page 1)	LITE/DPI	+	AC: TS&M-1U824XB1-DLT DC: TS&M-1U824DB1-DLT
AC: ICSDEF-1U824XB1-PRO DC: ICSDEF-1U824DB1-PRO	(See Hardware Spec, Page 1)	PRO	+	AC: TS&M-1U824XB1-PRO DC: TS&M-1U824DB1-PRO

Optional High-Performance Models Including Additional 4x SFP+ Ports, Available with AC or DC Power Entry

ICS360.Defender Appliance Series			Optional Annual Technical Support & Maintenance	
Part Number	Description	License Type		Part Number
Each ICS360.Defender Product must be quoted with Optional Annual Technical Support & Maintenance and renewed annually				
AC: ICSDEF-1U824XB5-LIT DC: ICSDEF-1U824DB5-LIT	(See Hardware Spec, Page 1)	LITE	+	AC: TS&M-1U824XB5-LIT DC: TS&M-1U824DB5-LIT
AC: ICSDEF-1U824XB5-DLT DC: ICSDEF-1U824DB5-DLT	(See Hardware Spec, Page 1)	LITE/DPI	+	AC: TS&M-1U824XB5-DLT DC: TS&M-1U824DB5-DLT
AC: ICSDEF-1U824XB5-PRO DC: ICSDEF-1U824DB5-PRO	(See Hardware Spec, Page 1)	PRO	+	AC: TS&M-1U824XB5-PRO DC: TS&M-1U824DB5-PRO



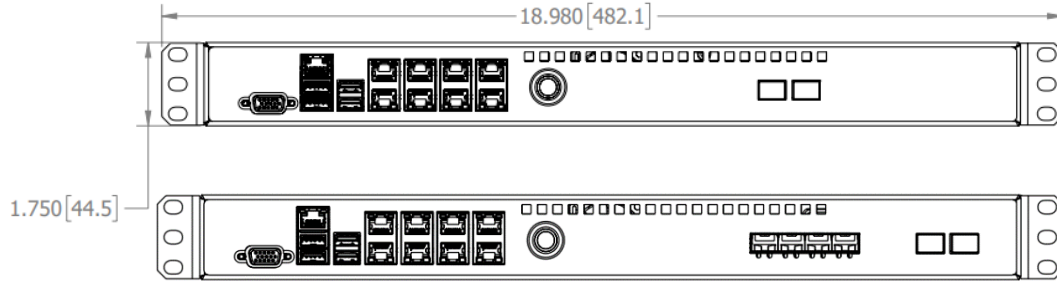
ICS360.DEFENDER VERSIONS & FEATURE SELECTION

ICS360.Defender Features by License Type						
	SIMPLE-NAT (-SNT)	NAT (-NAT)	REMOTE (-VPN)	LITE w/o DPI (-LIT)	Lite w/ DPI (-DLT)	PROFESSIONAL (-PRO)
GENERAL	✓	✓	✓	✓	✓	✓
Dynics Cybersecurity Console Manage/Monitor multiple ICS360.Defenders	✓	✓	✓	✓	✓	✓
NAT Network Address Translation	✓	✓	✓	✓	✓	✓
DIAGNOSTICS Troubleshoot traffic, network, and ICS configuration	✓	✓	✓	✓	✓	✓
FIREWALL Control Network Traffic	✓	✓	✓	✓	✓	✓
VPN Remote Access/Virtual Private Network		✓	✓	✓	✓	✓
CERTIFICATE MANAGEMENT Local/Enterprise		✓	✓	✓	✓	✓
AD/LDAP/RADIUS/Local User Management Authentication Types		✓	✓	✓	✓	✓
DHCP Dynamic Host Configuration Protocol		✓	✓	✓	✓	✓
CAPTIVE PORTAL Control supplier access		✓	✓	✓	✓	✓
DNS Domain Name System		✓	✓	✓	✓	✓
RULES/POLICY SCHEDULER Schedule rules by date/time/duration			✓	✓	✓	✓
NTP (Network Time Protocol) Synchronize time to master clocks				✓	✓	✓
PACKAGES Adds additional functionality above base				✓	✓	✓
Asset Detection & Monitoring Track network assets by serial #, f/w, etc.				✓	✓	✓
DPI (Deep Packet Inspection) Finite control of access to PLCs, HMIs, Devices					✓	✓
Load Balancing Use multiple uplinks to increase throughput						✓
Traffic Shaping						✓
Hot Failover Redundancy for critical paths						✓



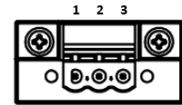
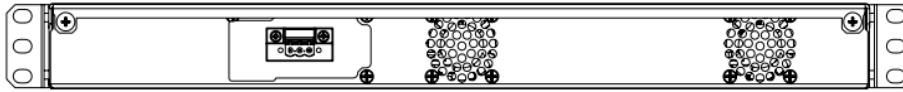
MECHANICAL DRAWINGS

FRONT AND BACK VIEW



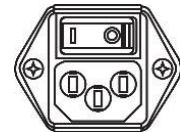
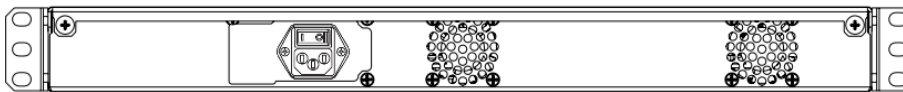
Showing Additional 4x SFP+ Ports

24VDC Power Entry

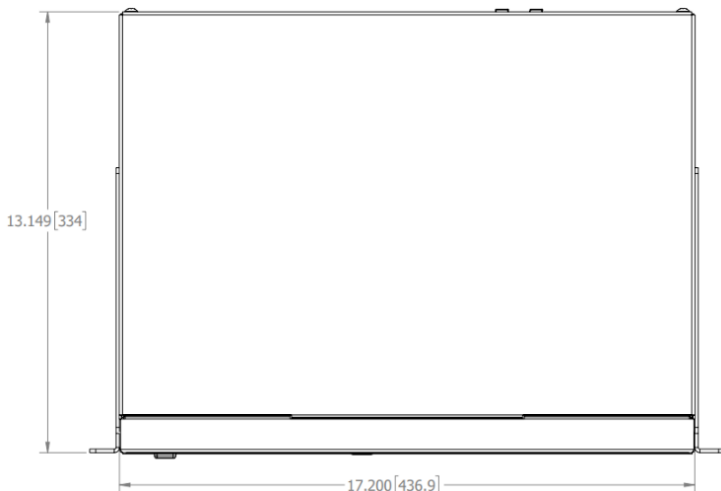


PIN 1: V+
PIN 2: \perp (Chassis Ground)
PIN 3: V-

100~240VAC Power Entry



TOP VIEW



SIDE VIEW



All measurements are in inches and pounds, unless noted. Pictures and drawings are not to scale. Estimated weight may change depending on options.
DYNICS Reserves the right to change, modify, upgrade, or discontinue any part of this datasheet without any prior notice.