

CROSS DOMAIN SOLUTION

ArrowLinux

5000 Series

Hardware-enforced one-way transfer for isolated networks.



ArrowLinux 5000 Series

Models 5280 • 5282 • 5283

10 Gbps

Unidirectional media transfer rate, all models

1 + 1 Gbps

Peak file transfer throughput (model 5283)

1 in 5M

Maximum file loss rate, all models

EAL 4+

Common Criteria certified (5282, 5283)*

OVERVIEW

The ArrowLinux 5000 Series is the next-generation ArrowLinux, engineered to securely bridge isolated networks with military-grade assurance. Featuring patented SFP+ technology for high-performance, unidirectional communication and real-time file loss detection, it ensures secure and reliable data transfer while maintaining strict air-gap enforcement.

Certified to Common Criteria EAL 4+ by the Cyber Security Agency of Singapore (CSA)*, it prevents data leakage through hardware-enforced one-way communication. An integrated management portal streamlines deployment, operation, and maintenance, while the stackable hardware design enables seamless integration with third-party solutions.

Its modular form factor encapsulates all core functionalities, supporting secure file transfers, video streaming, VoIP, and cross-domain integrations. The ArrowLinux 5000 Series eliminates data leakage, blocks malware injection, and protects critical infrastructure without compromising efficiency.

ARROWLINX 5000 SERIES

High performance

The next-generation ArrowLinux, built on patented SFP+ technology for high-performance unidirectional communication and real-time file loss detection. Supports secure file transfer, video streaming, VoIP and cross-domain integrations.

- ◆ File throughput from 500 Mbps to 1 + 1 Gbps
- ◆ Industrial, messaging and streaming protocols
- ◆ CC EAL 4+ certified by CSA (5282, 5283)*

KEY FEATURES ACROSS THE RANGE

01

Unidirectional communication

Secure, hardware-enforced one-way data transfer.

02

Built-in operational monitoring

Real-time health monitoring with alerts via SYSLOG, email and SNMP traps.

03

Self-service & stackable

Integrated management portal, plus a stackable design for third-party integration.

*Common Criteria EAL 4+ certification by CSA Singapore applies to models 5282 and 5283 only, as listed in the specification table on page 2.



Technical Specifications

ArrowLinux 5000 Series (5280 / 5282 / 5283)

Model	5280	5282	5283
PERFORMANCE			
Unidirectional media transfer rate	10 Gbps	10 Gbps	10 + 10 Gbps
File transfer throughput	500 Mbps	1 Gbps	1 + 1 Gbps
Small files (under 10 KB)	More than 200 files/sec		
File loss	No more than 1 file lost for every 5,000,000 files transferred		
HARDWARE & INTERFACES			
Memory	2 x 8GB RAM	2 x 8GB RAM	4 x 8GB RAM
Hard disk	2 x 880GB	2 x 1.8TB	4 x 1.8TB
Production network (per node)	2 x 1GbE (RJ-45) or 2 x 10GbE (SFP+), teamed network		
Management network (per node)	1 x 1GbE (RJ-45)		
Power supply	Up to 2 x 300W (redundant PSU)		
AC input	AC 110 to 240V @ 50/60Hz (5A max)		
PHYSICAL (PER SERVER)			
Dimensions (H x W x D, cm)	4.40 x 43.00 x 76.00		
Weight	10.6 kg	10.6 kg	11.8 kg
Shipping dimensions (H x W x D, cm)	16.00 x 60.00 x 88.00		
Shipping weight	14.2 kg	14.2 kg	15.4 kg
ENVIRONMENT & RELIABILITY			
Operating	0 to 40°C • 10 to 95% RH		
Storage	-20 to 70°C • 10 to 95% RH		
MTBF	114,218 hrs	114,218 hrs	62,936 hrs
CERTIFICATION & CUSTOMS			
Security certification	—	CC EAL 4+ certified by CSA Singapore	
Safety certifications	FCC, CE, UL+CB, BSMI, VCCI		
Export control / HS code	Harmonised System (HS) Code 8517.62.61		

SUPPORTED NETWORK & DATA REPLICATION PROTOCOLS

All models (5280 / 5282 / 5283)

TCP	UDP	SYSLOG	SNMP Traps	Probe Mode	Folders Mirroring (SMB, SAMBA)	SFTP	FTP	HTTP
HTTP(S) • SMTP • OPC UA • Kafka • MODBUS (RS232/TCP) • IEC 104 • MQTT • RTSP								

OPERATIONS & MANAGEMENT (ALL MODELS)

Built-in health monitoring with alerts via SYSLOG, email (SMTP) and SNMP traps. NTP synchronisation through ArrowLinux. Self-service configuration portal.