

ERA® RF Donor Card



Product Classification

Product Type	Card
Product Brand	ERA®

General Specifications

Device Type	Card
General Alarm	Integrated into management system
Input Connector Interface	QMA Female
Input Connector, quantity	4
Management Interface	Integrated into management system
Note	Detailed Product Specifications are available. Please contact your local CommScope representative.

Dimensions

Height	20 mm 0.787 in
Width	145 mm 5.709 in
Depth	300 mm 11.811 in

Electrical Specifications

Input Voltage	12 Vdc
Bandwidth per Port	75 MHz
Bandwidth, total	320 MHz
Composite Input Power Range, minimum	-5 dBm to +16 dBm
Operating Frequency Band	380 – 2700 MHz
Power Consumption	45 W

Electrical Specifications, Tx (Downlink)

Input ICP-3

-70 dBc

Environmental Specifications

Operating Temperature

+5 °C to +40 °C (+41 °F to +104 °F)

Mean Time Between Failures (MTBF) at Temperature

77 yr @ 25 °C

Packaging and Weights

Height, packed

210 mm | 8.268 in

Width, packed

63 mm | 2.48 in

Depth, packed

362 mm | 14.252 in

Weight, net

0.54 kg | 1.19 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant



ION®-E Wireless Communications Switch Subrack, 2 U



Product Classification

Brand	Era™ ION®-E
Product Type	Subrack

General Specifications

Includes	Fan filter Fan tray
Note	Detailed Product Specifications are available. Please contact your local CommScope representative.
Rack Type	EIA 19 in

Electrical Specifications

Electrical Safety Standard	EN 60950
Power Consumption	45 W
Voltage Range	12 Vdc

Mechanical Specifications

Mounting	Rack
Slots Available, quantity	11

Environmental Specifications

Mean Time Between Failures (MTBF)	45 yr @ 25 °C
Operating Temperature	+5 °C to +40 °C (+41 °F to +104 °F)

Dimensions

Depth	450.00 mm 17.72 in
Height	88.50 mm 3.48 in
Net Weight	7.60 kg 16.76 lb
Width	482.00 mm 18.98 in

Packed Dimensions

Depth	185.0 mm 7.3 in
Height	522.0 mm 20.6 in

Width

585.0 mm | 23.0 in

ERA® Optical Transport Card



Product Classification

Product Type	Card
Product Brand	ERA®

General Specifications

Device Type	Card
General Alarm	Integrated into management system
Management Interface	Integrated into management system
Note	Detailed Product Specifications are available. Please contact your local CommScope representative.

Dimensions

Height	20 mm 0.787 in
Width	145 mm 5.709 in
Depth	300 mm 11.811 in

Electrical Specifications

Input Voltage	12 Vdc
Power Consumption	8 W

Environmental Specifications

Operating Temperature	+5 °C to +40 °C (+41 °F to +104 °F)
Mean Time Between Failures (MTBF) at Temperature	574 yr @ 25 °C

Packaging and Weights

Height, packed	210 mm 8.268 in
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Width, packed	63 mm 2.48 in
Depth, packed	362 mm 14.252 in
Weight, net	0.28 kg 0.617 lb



Power Supply Unit, 12 Vdc, 100-240 Vac

Product Classification

Brand	Era™ ION®-E
Product Type	Power supply

General Specifications

Note	Detailed Product Specifications are available. Please contact your local CommScope representative.
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Electrical Specifications

Input Frequency Range	47–63 Hz
Input Voltage Range	+85 to +264 Vac
Output Power, maximum	1250 W
Output Voltage	12 Vdc

Supervision And Control

RF Alarm	Current failure
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Environmental Specifications

Mean Time Between Failures (MTBF)	37 yr @ 25 °C
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)

Dimensions

Depth	285.00 mm 11.22 in
Height	42.00 mm 1.65 in
Net Weight	1.40 kg 3.09 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2008	

FLEX All-in-One Solution

Integrated BDA + Battery Backup + Annunciator

HONBDA-7S

Product Features

- Supports Public Safety 700 & 800MHz dual band version
- 24hr Battery backup and Annunciator included in the same cabinet
- Band 14 available
- Upgradeable options: Class B to Class A & 0.5W/27dBm to 2W/33dBm
- Fully digital, FPGA based
- Auto Diagnostic
- Automatic gain control per band; Per channel and per time slot on channel selective mode
- Oscillation detection with alarm and auto-shutdown
- Antenna Isolation measurement feature
- Innovative donor antenna disconnect and malfunction alarms
- EPO switch support
- Weatherproof enclosure, NEMA 4
- NFPA compliant with dry contact alarms
- Uplink and downlink squelch, per channel and per time slot on channel selective mode
- Assisted GUI wizard with Automatic Calibration features (Patent Pending) to reduce the uplink noise
- User adjustable gain control, UL and DL independent, per band and per channel on channel selective mode
- UL2524 2nd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524
- IFC 2015, 2018, 2021 Edition
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition, NFPA 1225 2022 Edition
- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act
- 3 years Warranty



Applications

- Provides simultaneous support of Analog and Digital communications for P25 Phase I & Phase II, DMR, NXDN and Conventional systems
- Indoor coverage: buildings, schools, hospitals, casinos, tunnels, metro stations
- Outdoor coverage: oil rigs, stadiums, dense urban areas, rural areas

Specifications

Value

Type	Dual Band Digital Signal Booster
Frequency Range	HONBDA-7S27B-IB-10: DL: 758-775 & 851-861MHz UL: 788-805 & 806-816MHz HONBDA-7S27B-IB-06: DL: 769-775 & 851-861MHz UL: 799-805 & 806-816MHz HONBDA-7S27B-IB-18: DL: 758-776 & 851-869MHz UL: 788-806 & 806-824MHz
Passband BW. min	100kHz to full band or Channel Selective (After Upgrade to Class A)
Number of Passband	2 BWA per band or 32 channel filters + 2 BWA per band (After Upgrade to Class A)
Channel Filter Options	150kHz, 100kHz, 75kHz, 62.5kHz, 50kHz, 37.5kHz, 25kHz and 12.5kHz (After Upgrade to Class A)
BWA Filters	Adjustable from 100kHz to full band in step in steps of 50kHz
Gain, Maximum	85 dB
Passband Ripple	+/- 2.0 dB
Gain, Manual Control	30dB range, digitally controlled in 1dB steps, per link, per band
Antenna Isolation	Max Gain + 20dB
Composite Output Power, DL	+27dBm or +33dBm (After Upgrade to 2W) per band
Composite Output Power, UL	+24dBm per band
IMD	< -13dBm
Noise Figure	9.0dB max

Specifications

Value

Group Delay	Band Selective: 3.1 to 6.0μS, depending on BWA Or After Class A upgrade Channel Selective 150kHz, 11.6μS Channel Selective 100kHz, 14.3μS Channel Selective 75kHz, 16.9μS Channel Selective 62.5kHz, 18.8μS Channel Selective 50kHz, 21.6μS Channel Selective 37.5kHz, 26.3μS Channel Selective 25kHz, 35.8μS Channel Selective 12.5kHz, 63.0μS
Maximum Input Power, No Damage	0dBm (UL), 0dBm (DL)
Maximum Input Power, Normal peration	-5dBm (UL), -5dBm (DL)
Connectors	N(f) as standard
RF Input/Output impedance	50
Uplink squelch function	Yes, user selectable, to avoid UL noise when no carriers present, per band, per time slot and per channel (on Class A mode)
Self diagnostic platform	Microprocessor based
Annunciator	LED and dry contacts included
Local management and supervising	Local access via USB
RoHS compliance	Yes
Power Supply	AC 110 VAC, 50/60 Hz
Battery Backup time	24hr at maximum consumption with Fiplex provided batteries
Quantity of Batteries	2 units
Batteries Type	Lead Acid
Power consumption for 24hr backup calculation	65W or 80W (After Upgrade to 2W)
Maximum AC Power consumption considering fully discharged batteries	200W
Housing	NEMA 4
Temperature range	-13° to 131° F • -25° to +55° C
Cooling	Natural convection
Weight	275 lbs (124.7kg) - including batteries
Dimension	25.5 in (647.50 mm) x 32.5 in (827 mm) x 13.8 in (353 mm)
FCC ID	Class A: P3TDH7S-8A Class B: P3TDH7S-8B
SGS UL2524 ID	SGSNA/23/SUW/00030

Product Description

Ordering Part Number

0.5W/27dBm, 800 (excludes ESMR) + 700 + Band 14 CLASS B, Upgradeable to Class A, 2W/33dBm options, AC. Batteries Included	HONBDA-7S27B-IB-10
0.5W/27dBm, 800 (excludes ESMR) + 700 (excludes Band 14), CLASS B, Upgradeable to Class A, 2W/33dBm options, AC. Batteries Included	HONBDA-7S27B-IB-06
0.5W/27dBm, 800 Full band (includes ESMR)+ 700 + Band 14, CLASS B, Upgradeable to Class A, 2W/33dBm options, AC. Batteries Included	HONBDA-7S27B-IB-18

FLEX All-in-One Solution

Integrated BDA + Battery Backup + Annunciator

HONBDA-7S

Type of License Upgrade	Upgrade Ordering Part Number
From 0.5W/27dBm Class B to 0.5W/27dBm Class A	BDA-LIC-D27B-D27A
From 0.5W/27dBm Class B to 2W/33dBm Class B	BDA-LIC-D27B-D33B
From 0.5W/27dBm Class B to 2W/33dBm Class A	BDA-LIC-D27B-D33A
From 2W/33dBm Class B to 2W/33dBm Class A	BDA-LIC-D33B-D33A
From 0.5W/27dBm Class A to 2W/33dBm Class A	BDA-LIC-D27A-D33A

Standards and Codes

The FLEX All-in-One Solution Integrated BDA + Battery Backup + Annunciator units comply with the following standards and codes:

- Buy American Compliant: Meets the definition of Domestic Construction material under the Buy American Act
- FCC (Federal Communications Commission-US)
- IC Approved
- SGS C-UL Compliant
- UL2524 2nd Edition Standard with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL 2524
- IFC 2015, 2018, 2021 Edition
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition, NFPA 1225 2022 Edition
- ROHS Compliant

This document is not intended to be used for installation purposes.
We try to keep our product information up-to-date and accurate.
We cannot cover all specific applications or anticipate all requirements.
All specifications are subject to change without notice.

Fiplex

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Country of Origin: USA

Era® CAP M 4/70/80 – Product Specifications

This product is part of Era®, CommScope's all-digital distributed antenna system.

For a full system description, features and benefits, visit:

<https://www.commscope.com/product-type/in-building-cellular-systems/distributed-antenna-systems-das/era/>



General Specification

Minimum Software Requirement	Era V2.7.1
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Electrical Specification

License Band	UHF I LMR 700 LMR 800
Impedance	50 ohm
Flatness, inband link	±2 dB
Return Loss	12 dB
System EVM - LTE ¹	<2% (up to 1024 QAM)
Electrical Safety Standard	EN 62368-1*
Electromagnetic Compatibility (EMC)	EN 301489
Voltage Range	
CAP M...F-AC	90 to 264 Vac
CAP M...F-DC	-60 to -36 Vdc
Power Consumption** max	140 W
Power Consumption at Auxiliary Port	IEEE 802.3 at Class 3

Output Power per Antenna Port

Output Power UHF	
1 Carrier	+22 dBm/LTE Carrier
2 Carrier	+19 dBm/LTE Carrier
4 Carrier	+16 dBm/LTE Carrier

Output Power LMR 700	
1 Carrier	+31 dBm/LTE Carrier
2 Carrier	+28 dBm/LTE Carrier
4 Carrier	+25 dBm/LTE Carrier

Output Power LMR 800	
1 Carrier	+31 dBm/LTE Carrier
2 Carrier	+28 dBm/LTE Carrier
4 Carrier	+25 dBm/LTE Carrier

RF output power tolerance	±2 dB
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Electrical Specification Rx (Uplink)

Operating Frequency Band	
UHF	406.1 – 420 MHz, 450 – 512 MHz
LMR 700	788 – 805 MHz
LMR 800	806 – 824 MHz
UL ALC Default Threshold	-42 dBm
System Gain Range, nominal***	+6 dB to +36 dB
System Input ICP-3	-13 dBm
Noise Figure Typical	7 dB
Noise Figure Maximum	9 dB

Electrical Specification Tx (Downlink)

Operating Frequency Band	
UHF	406.1 – 420 MHz, 450 – 512 MHz
LMR 700	758 – 775 MHz
LMR 800	851 – 869 MHz
System Gain Range, nominal***	+6 dB to +35 dB

Mechanical

RF Antenna Port 1 TX/RX, Band Assignment	70/80
RF Antenna Port 2 TX, Band Assignment	4
RF Antenna Port 2 RX, Band Assignment	4
RF Antenna Port Interface	4.3-10 Female
RF Antenna Port qty	3
Input Interface	
CAP M...F-AC, CAP M...F-DC	LC
Input, quantity	
CAP M...F-AC, CAP M...F-DC	1
I/O Interface ²	1 output
Mounting	Wall Pole

Dimensions

	CAP M...F-AC, CAP M...F-DC	Packed Dimensions
Height mm (in)	514 (20.24)	600 (23.6)
Width mm (in)	453 (17.83)	750 (29.5)
Depth mm (in)	160 (6.30)	300 (11.8)
Weight, kg (lb)	19 (41.89)	

Environmental

Ingress Protection	IP66
Mean Time Between Failures (MTBF) at Temperature	
CAP M...F-AC, CAP M...F-DC	39 yr @ 25 °C
Operating Temperature	
CAP M...F-AC, CAP M...F-DC	-33 °C to +50 °C (-27.4 °F to +122 °F)

Ordering Information

CAP M 4/70/80 F-AC	Fiber Fed, AC power	7828333-0001
CAP M 4/70/80 F-DC	Fiber Fed, DC power	7828333-0002

Era® CAP M 4/70/80 – Product Specifications

- ¹ EVM - 5GNR available on request
² Alarms Binder Series M9 connector with two dry contacts that can be used to send CAP M alarms/status to a third-party monitoring device

* This is not a consumer device
 ** without SFP+ consumption – does not include power drawn by an external PoE device connected to the RJ45 auxiliary port, which may draw an additional 20 W.
 *** Gain refers to nominal input at the RFD -5dBm to +16dBm
 All figures are typical values unless otherwise stated

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