



The EXPRESS Public Safety platform is a robust Distributed Antenna System (DAS) providing highly reliable, code-compliant public safety radio coverage in buildings and public venues.

It supports all current public safety bands (including FirstNet) necessary for compliance with national and international codes and ordinances. The 700 and 800 Public Safety bands are supported in the EXPRESS Main Remote Unit (MRU). VHF and UHF are supported in the optional Add-On Remote (AOR).

The MRU provides support for alarm inputs from external equipment like battery backup, now required in many Public Safety deployments.

Features

- Lower Equipment Costs – high efficiency with fewer components.
- Lower Operations Costs – rugged design and convection cooling means no moving parts.
- Fiber Efficiency – typically one fiber needed to connect a building.
- Flexible Deployment – small footprint, wall or rack mounted remotes.
- Easy Setup, Monitoring, Maintenance – from web-based interface.

Certifications

- NFPA 72, 1221 Compliant. NEMA 4
- UL (North America): UL 60950-1 2nd Edition
- CSA (Canada): C22.2 No. 60950-1-07 2nd Edition and 60950-1-03 1st Edition
- FCC (North America): Part22 Subpart H, Part24 Subpart D & E, Part27 Subpart C, Part90 Subpart I
- IC (Canada): RSS-131 (Issue 2), ICES-003
- Emissions (North America): FCC Part15 Subpart B, Class A. VHF: F1D, F3E, UHF: F1D, F1E, F3E

Specifications - RF and Optical				
	700PS + FN	800PS	VHF	UHF*
RF Output Power, downlink (dBm)	+27 ± 0.5	+27 ± 0.5	+24 ± 0.5	+24 ± 0.5
RF Output Power, uplink (dBm)	0 ± 0.5	0 ± 0.5	-4 ± 0.5	-4 ± 0.5
Downlink Gain (dB)	22 - 47	22 - 47	14 - 39	14 - 39
Uplink Gain (dB)	25 - 50	25 - 50	25 - 45	25 - 45
TX Frequency Range (MHz)	758 - 775	851 - 869	136 - 174	B1: 380-434 B2: 396-450 B3: 450-512
RX Frequency Range (MHz)	788 - 805	806 - 824	136 - 174	B1: 380-434 B2: 396-450 B3: 450-512
Noise Figure	8dB max	8dB max	7dB max	7dB max
Delay	<3usec for 700/800. <5usec for VHF&UHF (Over 1 meter of fiber)			
VSWR	MRU 1.6			
Passband ripple	4dBp-p per Band			
Optic Link Loss	Max 5dB _o			
Optic wavelength	1310nm/1550nm with WDM			
Uplink Input Power	-50dBm			
* NOTE: UHF Band is software selectable. Only one of the UHF bands on each RDU can be active at a time.				

Mechanical	MRU 700/800	AOR VHF/UHF
AC Power	100 to 240 VAC, 50/60 Hz	
DC Power	Normal: -48 VDC. Operating range: -42 to -56V DC	
Power consumption	50W	93W
RF Output Connector Type	N Female	SMA Female
Tx/Rx Output Configuration	1 port, Tx/Rx 700/800	2 ports, 1 Tx 150/450, 1 Rx 150/450
Dimensions (W x H x D)	7.9" x 11.8" x 5.5" (200 x 300 x 138.5 mm)	19" x 6.96" x 10.16" (482.6 x 177 x 258)
Operating Temp / Humidity	14 to 122°F (-10 to +50°C) / 5% to 90% Non-condensing	
Weight	15.6 lbs (7.1 kg)	24.25 lbs (11 kg)

Parts List – Remote Units and DMS-600	Part Number
700 MHz PS & 800 MHz PS Main Remote Unit - AC Power - NEMA Enclosure	MRU_AC_700_800_N_PS
700 MHz PS & 800 MHz PS Main Remote Unit - DC Power - NEMA Enclosure	MRU_DC_700_800_N_PS
SC-DAS Add-on Cabinet Only - AC Power - Red NEMA (requires RDU_E_VHF_UHF)	ROU_Add-On_AC_N_PS
SC-DAS Add-on Cabinet Only - DC Power - Red NEMA (requires RDU_E_VHF_UHF)	ROU_Add-On_DC_N_PS
150MHz VHF & 450MHz UHF Amplifier Module (VHF + UHF Sub-band: B2 or B3)	RDU_150_450
VHF / UHF Amplifier Module (VHF + UHF Sub-band: B1 or B3)	RDU_E_VHF_UHF
EXPRESS Public Safety MRU-to-AOR Cable with External Alarm Input Pigtail	CBL_SC_AOR_ALM_PS
EXPRESS Public Safety MRU cable with External Alarm Input Pigtail	CBL_MRU_ALM_PS
DAS Management System for EXPRESS	DMS_600



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