



# EXPRESS™ SINGLE-CARRIER DAS SPECIFICATIONS AND PARTS

## SOLID EXPRESS SINGLE CARRIER DAS DETAILED SYSTEM SPECIFICATIONS

Item	700PS	700LTE	800	850C	900+PA	1900P	AWS-1	VHF	UHF		
(700LTE/AWS)+(850/1900)	-	24dBm	-	24dBm	-	28dBm	28dBm	24dBm	24dBm		
(700LTE/AWS)+(850/1900)	-	24dBm	-	24dBm	-	28dBm	OFF				
(1900) + (800/900)	-	-	25dBm	-	25dBm	30dBm	-				
(1900/AWS)	-	-	-	-	-	30dBm	30dBm				
(1900)	-	-	-	-	-	30dBm	-				
(850/1900)	-	-	-	25dBm	-	30dBm	-				
(850/1900) + (700PS/800)	21dBm	-	21dBm	21dBm	-	30dBm	-				
(700PS/800) + (800/900)	21dBm	-	21dBm	-	21dBm	-	-				
Downlink Gain	41dB	44dB	45(41)dB	44(45,41)dB	45(41)dB	48(50)dB	48(50)dB			14~39dB	14~39dB
TX Frequency Range (MHz)	764~776	728-757	851-869	869-894	869-894	929-941	1930-1995			2110-2155	136-174
RX Frequency Range (MHz)	794~806	698-716 777-787	806-824	824-849	896-902	1850-1915	1710-1755	136-174	385-512		
Gain Control Range	25dB/step 1dB										
Spurious	<-13dBm										
Optical Link AGC	Above 10dB										
VSWR	1.4 max										
Passband ripple	5dBp-p per Band										
Optic Link Loss	Max 5dB										
Optic wavelength	1310nm/1550nm with WDM										
Uplink Output Power	0dBm/Total each band										
Uplink Input Power	-50dBm max										
Noise Figure	12dB	8dB	(850/1900) + (700PS/800) : 12dB (700PS/800) + (800/900) : 12dB (1900) + (800/900) : 8dB	8dB (850/1900) + (700PS/800) : 12dB	8dB	8dB	8dB	7dB	7dB		
Uplink Gain	30~50dB						25dB~45dB				
Gain Control Range	20dB/step 1dB										

## SOLID EXPRESS SINGLE CARRIER DETAILED PARTS LIST AND SPECIFICATIONS

Part Description	Part Number	Size (L x W x H)	Rack Space	Weight - lbs (Fully Loaded)	Power Consumption
SC Base Station Interface Unit - SISO Configuration	SC_BIU_SISO	19" x 8.75" x 17.7"	5U	40.2	39W
SC Base Station Interface Unit - MIMO Configuration	SC_BIU_MIMO	19" x 8.75" x 17.7"	5U	57.65	78W
700MHz PS & 800MHz Input Module for the SC_BIU	SC_MDBU_700PS_800	11.2" x 2.2" x 8"	N/A	6.6	16W
800MHz & 900MHz Input Module for the SC_BIU	SC_MDBU_800_900	11.2" x 2.2" x 8"	N/A	6.6	16W
1900MHz Input Module for the SC_BIU	SC_MDBU_1900	11.2" x 2.2" x 8"	N/A	6.6	16W
1900MHz & 2100MHz Input Module for the SC_BIU	SC_MDBU_1900_2100	11.2" x 2.2" x 8"	N/A	6.6	16W
850MHz & 1900MHz Input Module for the SC_BIU	SC_MDBU_850_1900	11.2" x 2.2" x 8"	N/A	6.6	16W
700MHz LTE & 2100MHz Input Module for the SC_BIU	SC_MDBU_700LTE_2100	11.2" x 2.2" x 8"	N/A	6.6	16W
MCDU Combiner Module for the SC_BIU	SC_MDCU	11.2" x 1.9" x 8"	N/A	6.6	2W
Blank MCDU Module for the SC_BIU	SC_MDCU_B (BIU Blank)	11.2" x 1.9" x 8"	N/A	0.7	-
Blank Input Module for the SC_BIU	SC_MDBU_B (BIU Blank)	11.2" x 2.2" x 8"	N/A	0.7	-
Optical Distribution Unit Chassis	SC_ODU_C	19" x 1.75" x 17.7"	1U	5.55	-
4 Port Optical Module	SC_ODU_OM_4	11.8" x 6.6" x 1.3"	N/A	3.9	13.5W
Blank Optical Module for the ODU	SC_ODU_B (ODU Blank)	11.8" x 6.6" x 1.3"	N/A	0.7	-
Optical Expansion Unit Chassis	SC_OEU_C	19" x 3.5" x 17.7"	2U	13.5	10W
4 Port Optical Module	SC_OEU_OM_4	11.8" x 6.6" x 1.3"	N/A	3.9	13.5W
Blank Optical Module for the OEU	SC_OEU_B (Blank Module)	11.8" x 6.6" x 1.3"	N/A	0.7	-
700MHz PS & 800MHz Main Remote Unit	MRU_AC_700PS_800	7.9" x 11.8" x 4.5"	7U	15	50W
1900MHz Main Remote Unit	MRU_AC_1900	7.9" x 11.8" x 4.5"	7U	15	50W
850MHz & 1900MHz Main Remote Unit	MRU_AC_850_1900	7.9" x 11.8" x 4.5"	7U	15	50W
700MHz LTE & 2100MHz Main Remote Unit	MRU_AC_700LTE_2100	7.9" x 11.8" x 4.5"	7U	15	50W
700MHz LTE & 2100MHz Future Ready Main Remote Unit	MRU_AC_700LTE_2100_FR	7.9" x 11.8" x 4.5"	7U	15	50W
2100MHz & 700MHz LTE Future Ready Main Remote Unit	MRU_AC_2100_700LTE_FR	7.9" x 11.8" x 4.5"	7U	15	50W
1900MHz & 2100MHz Main Remote Unit	MRU_AC_1900_2100	7.9" x 11.8" x 4.5"	7U	15	50W
800MHz & 900MHz Add-on Remote Unit	ARU_AC_800_900	7.9" x 11.8" x 4.5"	7U	15	40W
700MHz LTE & 2100MHz Add-on Remote Unit	ARU_AC_700LTE_2100	7.9" x 11.8" x 4.5"	7U	15	40W
700MHz LTE & 2100MHz Future Ready Add-on Remote Unit	ARU_AC_700LTE_2100_FR	7.9" x 11.8" x 4.5"	7U	15	40W
2100MHz & 700MHz LTE Future Ready Add-on Remote Unit	ARU_AC_2100_700LTE_FR	7.9" x 11.8" x 4.5"	7U	15	40W
700MHz PS & 800MHz Add-on Remote Unit	ARU_AC_700PS_800	7.9" x 11.8" x 4.5"	7U	15	40W
150MHz VHF & 450MHz UHF Amplifier Module	RDU_150_450	5.5" x 2.32" x 14.88"	N/A	-	93W
Add-on cabinet for ROU - AC Power	ROU_Add-On_AC	10.16" x 19" x 6.96"	4U	24.25	78W
Add-on cabinet for ROU - DC Power	ROU_Add-On_DC	10.16" x 19" x 6.96"	4U	24.25	78W

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## FEATURES

### DESIGN EFFICIENCY

(1) Fiber Supports (6) Bands SISO  
(1) BIU Supports (6) Bands + MIMO

### EASY INSTALLATION

EasySET™ auto-configuration  
simplifies commissioning

### 4G CERTIFIED

MIMO or SISO in any  
frequency band

### NFPA 72 COMPLIANT

Meets national fire code  
requirements

### NEMA 4X OPTION

Perfect for harsh environment  
installations

### UL LABELED

Remotes certified with internal  
AC power supply

### QUALITY TESTED

Factory test results provided  
with each component

## BENEFITS

### LOWER DAS EQUIPMENT COSTS

High efficiency with fewer  
components

### LOWER OPERATIONAL COSTS

Rugged design with no  
moving parts

### 3 YEAR STANDARD WARRANTY

Optional Lifetime Warranty

### FIBER EFFICIENCY

Typically one fiber to connect  
a building

### EASY TO PLACE EQUIPMENT

Small footprint  
NEMA indoor/outdoor option  
Wall or rack mounted remotes

