

Electrical	
Power Supply	85 to 264
Mains Power, Vac.	115 or 230
Power consumption, watts	1150

Optical	
Connectors	E2000/APC 8°
Optical return loss, dB	45 minimum
Fiber type, mm	Single mode E9/125
Optical link budget, dB	0 to 10
Composite input power @ OTRx master side, dBm	
1900 MHz	+5 composite
1700 / 2100 MHz	+5 composite

Interface	
BTS Side	
Number of connectors	
1900 MHz	4
1700/2100 MHz	4
System optimized for BTS power, dBm	
	33
	43
Antenna Port Connector	7/16 Female
Output power	See band specification
Return loss, dB	15

1700/2100 MHz (AWS)	
Frequency range, MHz	
Uplink	1710 to 1755
Downlink	2110 to 2155

Output power per carrier, dBm*	
Number of Carriers	1 2 4 8
GSM	45 42 39 36
CDMA	45 42 39 36
UMTS	45 42 39 36
LTE	45 42** 39 36

Spurious emission < -13 dBm / 1 MHz

Adjacent channel power, dBc	-48
DL output tolerance over frequency, dB	±1
DL output tolerance over temperature, dB	0.5***

Input ICP3, dBm	
ICP3 optimized	-12
Noise figure optimized	-18
Noise figure, dB	
ICP3 optimized	7
Noise figure optimized	11 max.
	4.5
	6 max.

1900 MHz (AWS)	
Frequency range, MHz	
Uplink	1850 to 1915
Downlink	1930 to 1995

Output power per carrier, dBm*	
Number of Carriers	1 2 4 8
GSM	45 42 39 36
CDMA	45 42 39 36
UMTS	45 42 39 36
LTE	45 42** 39 36

Spurious emission	< -13 dBm / 1 MHz
DL output tolerance over frequency, dB	±1
DL output tolerance over temperature, dB	0.5***
Input ICP3, dBm	
ICP3 optimized	-12
Noise figure optimized	-18

Noise figure, dB	
ICP3 optimized	7
Noise figure optimized	11 max.
	4.5
	6 max.

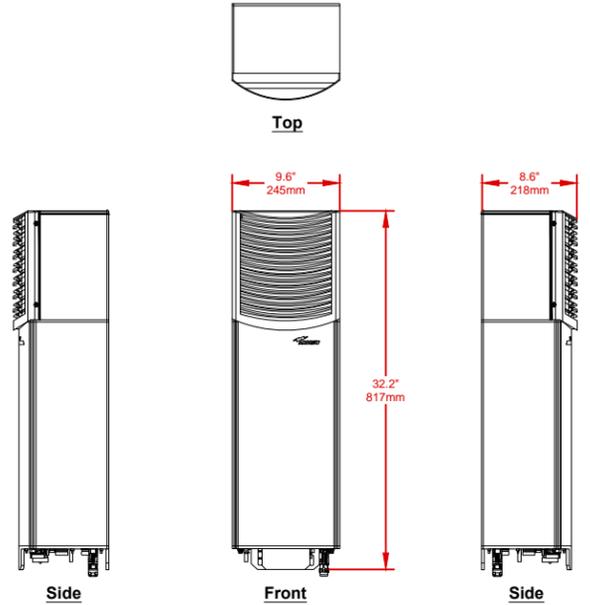
System Supervision and Control	
Commands	RF on/off External control parts
Alarms	Summary Power Supply Optical UL and DL failure Temperature
Supervision	Output power on a per-channel and per-band basis (optional)

Mechanical****	
Height, width, depth mm (in)	817 x 245 x 218 (32.2 x 9.61 x 8.6)
Weight, kg (lb)	40 (88.2)

Environmental	
Operation temperature range	-33° C to +50° C
Ingress protection	RF part: IP67 Fan part: IP55

* Applicable to single modulation mode only
 ** 3db power reduction @ < 5MHz carrier bandwidth
 *** With active cooling
 **** Spacing required 40 mm (1.58 in) around unit
 ***** With passive cooling maximum temperature +40° C
 All figures are typical values.

ANDREW ION-M17HP/19HP MULTI-BAND, MULTI-OPERATOR REMOTE OPTICAL SYSTEM



4 SCALE N.T.S.

ASG39m2

PHASE II
CROWN CASTLE PROJECT NO.
242727

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REVISION / ISSUE	DATE
UPDATING PHOTOSIMS	7/9/15
SITE RELOCATED	8/20/15
SITE RELOCATED	12/11/15

SITE NAME & ADDRESS:
ASG39m2
 26807 GRAYSLAKE RD
 RANCHO PALOS VERDES, CA

DETAILS & NOTES

DRAWN BY: AC	DRAFT DATE: 11/13/15	APPROVED BY: KB
SHEET NO. D-3		

