

# EXPLORER 540 Cellular Modem

Turns your BGAN into a dual mode M2M terminal

**COBHAM**

October 2020 Product Sheet

- Powerful Cellular Modem solution that turns the EXPLORER 540 satellite terminal into a hybrid dual mode M2M terminal
- Simply connect the Cellular Modem on the back of the EXPLORER 540 and use a local cellular network as an alternative to BGAN
- Solution is available in three variants: 3G, LTE-M/NB-IoT, LTE Cat 4
- Automatic failover between BGAN and cellular networks
- Designed for harsh environments with IP66 and an extended temperature range
- Highest throughput of up to 150 Mbps with LTE Cat. 4

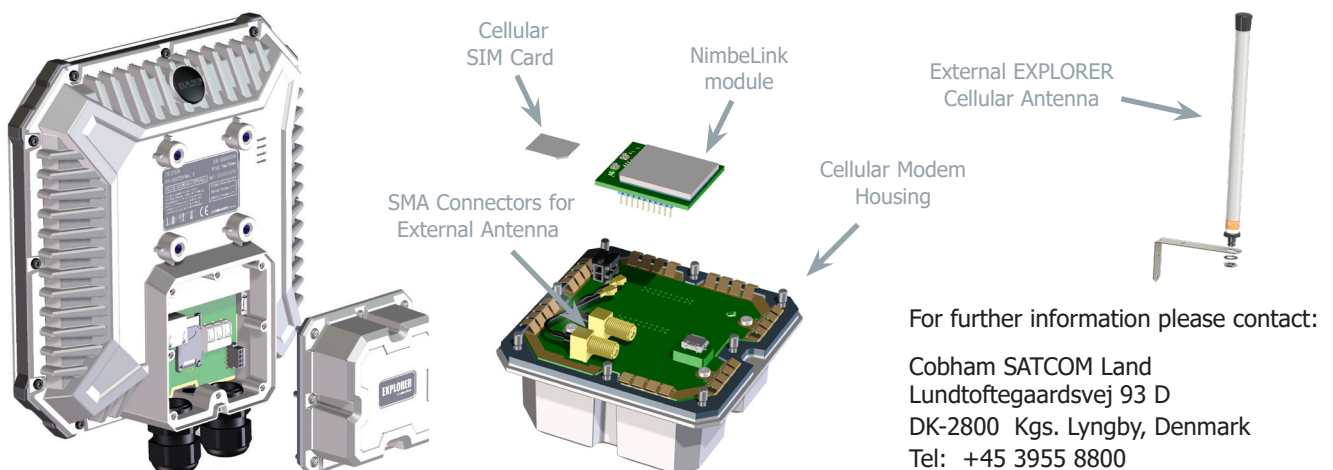


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Cellular Modules	NimbeLink NL-SW-HSPA		NimbeLink NL-SW-LTE-QBG96		NimbeLink NL-SW-LTE-TC4EU	
<b>Region</b>	Global		Global		Europe	
<b>Compatible Carriers</b>	AT&T, T-Mobile, WW 3G Networks		AT&T, Orange, Telstra, Telus, Verizon, Vodafone		Orange, Vodafone	
<b>Cellular Technology</b>	3G		LTE		LTE	
<b>LTE Category</b>	-		LTE-M, NB-IoT		LTE CAT 4	
<b>LTE Frequency Bands</b>	-		<b>LTE-FDD:</b> B1[2100], B2[1900], B3 [1800], B4[1700], B5[850], B8 [900], B12[700], B13[700], B18 [850], B19[850], B20[800], B26 [850], B28[700] <b>LTE-TDD:</b> B39 [1900] (LTE-M only)		FDD B1[2100], B3[1800], B7 [2600], B8[900], B20[800]	
<b>3G Technology</b>	UMTS, HSPA+		-		-	
<b>3G Frequency Bands</b>	B1[2100], B2[1900], B4[1700], B5 [850], B8[900]		-		B1 [2100], B8 [900]	
<b>2G Technology</b>	GSM, EDGE, GPRS		GSM, EDGE, GPRS		GSM, EDGE	
<b>2G Frequency Bands</b>	GSM850/900, DCS1800, PCS1900		GSM850, EGSM900, DCS1800, PCS1900		GSM900, DCS1800	
<b>Data Rates</b>	<b>Download:</b> HSPA+: 21.0 Mbps   EDGE: 296 Kbps   GPRS: 107 Kbps <b>Upload:</b> HSPA+ 5.76 Mbps   EDGE: 236.8 Kbps   GPRS: 85.6 Kbp		<b>Download:</b> LTE-M: 375 Kbps   NBIoT: 32 Kbps   GPRS: 107 Kbps   EDGE: 296 Kbps <b>Upload:</b> LTE-M: 375 Kbps   NBIoT: 70 Kbps   GPRS: 85.6 Kbps   EDGE: 236.8 Kbps		<b>Download:</b> LTE: 150 Mbps   HSPA+: 42.0 Mbps   EDGE: 296 Kbps <b>Upload:</b> LTE: 50 Mbps   HSPA+: 5.76 Mbps   EDGE: 236.8 Kbps	
<b>Regulatory</b>	GCF, PTCRB, CE/RED, FCC, IC, Anatel		PTCRB, CE/RED, FCC, IC		CE/RED	
<b>Carrier Approvals</b>	AT&T, Rogers, Telus		AT&T, Rogers (In-Progress), Telus, Verizon		-	
<b>Cellular Modem Housing</b>						
<b>Specifications</b>	<ul style="list-style-type: none"> <li>- Operating Temperature: -40°C to +85°C</li> <li>- IP rating (in housing): IP66</li> <li>- Size (L / W / D): 85 / 85 / 40 mm</li> <li>- Weight in housing: 380 gram</li> </ul>					
<b>Power Consumption</b>	12V	24V	12V	24V	12V	24V
- Sleep	< 2 mW	15 mW	< 2 mW	15 mW	< 2 mW	15 mW
- Idle (Average)	490 mW	590 mW	580 mW	695 mW	600 mW	720 mW
- Transmitting (Peak - 2G)	-	-	3.85 W	4.05 W	-	-
- Transmitting (Peak - LTE)	930 mW	990 mW	1.00 W (est.)	1.00 W (est.)	1.00 W	1.05 W
<b>Cellular Antenna Connector</b>	2 x SMA Connectors. One primary and one for diversity (Number of antennas depends on operator requirements). EXPLORER Cellular Antenna is optional					
<b>External Cellular Antenna</b>						
<b>EXPLORER Cellular Antenna</b>	<ul style="list-style-type: none"> <li>- Type: External, Omni-Directional</li> <li>- Frequencies: 698 - 960 MHz, 1427 - 1518 MHz, 1710 - 2170 MHz, 2300 - 2690 MHz</li> <li>- Gain: 0 dBd, 2.15 dBi (698-960 MHz), 3 dBd, 5.15 dBi (1427-1518/1710-2170 MHz), 7 dBd, 9.15 dBi (2300-2690/3300-3800 MHz)</li> </ul>					
<b>Product numbers</b>						
- EXPLORER Modem bundle (Includes housing and module)	403715A-00215		403715A-00214		403715A-00212	
- EXPLORER Cellular Antenna	403715A-00105					
<b>BGAN Firmware</b>	EXPLORER 540 version 1.05 or later					



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