

MAXIMUM OUTPUT POWER

FCCID:	BCG-E8725A, BCG-E8726A, BCG-E8727A, BCG-E8728A
IC ID:	579C-E8725A, 579C-E8726A, 579C-E8727A, 579C-E8728A
Model Number/HVIN:	A3212, A3408, A3409, A3410
Date:	12/17/2024

Procedure

During manufacturing, each device is individually calibrated and the RF output levels are checked. The measurement is done on a fully calibrated setup.

The calibration is done setting the maximum levels in the following tables. With the battery fully charged, the transmitter conducted power levels, for all bands are measured.

The modulation and operation modes listed below have the maximum power levels for operations of the same bandwidth.

Maximum Output Power –Ant1/7

Bands	OBD: 0 Power Table	OBD: 1 Power Table	Maximum Power Table
	Maximum (dBm)	Maximum (dBm)	Maximum (dBm)
GMSK 1 Slot			
850	33.5	33.5	33.5
1900	32	28.7	32
GMSK 2 Slot			
850	32.5	32.5	32.5
1900	31	25.7	31
8PSK 1 Slot			
850	28	28	28
1900	27	27	27
8PSK 2 Slot			
850	27	27	27
1900	26	25.7	26
WCDMA			
Band 2	25.7	19.7	25.7
Band 4	25.2	19.6	25.7
Band 5	25.7	25.7	25.7
LTE			
Band 2	25.7	19.7	25.7
Band 4	25.7	19.6	25.7
Band 5	25.7	25.7	25.7
Band 7	25.7	21	25.7
Band 12	25.7	25.7	25.7
Band 13	25.7	25.7	25.7
Band 14	25.7	25.7	25.7
Band 17	25.7	25.7	25.7
Band 25	25.7	19.7	25.7
Band 26	25.7	25.7	25.7
Band 30	25.7	22.9	25.7
Band 38	25.7	23.9	25.7
Band 41 (PC3)	25.7	23.9	25.7
Band 41 (PC2)	28.7	23.9	28.7
Band 48 Low channel	25.6	24	25.6
Band 48 Mid channel	25.6	24	25.6
Band 48 High channel	25.6	24	25.6
Band 66	25.7	19.6	25.7
Band 71	25.7	25.7	25.7
Band 5 2CA	25.7	25.7	25.7
Band 7 2CA	25.7	21	25.7
Band 38 2CA	25.7	23.9	25.7
Band 41 2CA (PC3)	25.7	23.9	25.7
Band 41 2CA (PC2)	28.7	23.9	28.7
Band 48 2CA	24.7	24	24.7
Band 53	20.7	20.7	20.7
L-Band	#N/A	#N/A	#N/A

NR1			
Band n2	25.7	19.7	25.7
Band n5	25.7	25.7	25.7
Band n7	25.7	21	25.7
Band n12	25.7	25.7	25.7
Band n14	25.7	25.7	25.7
Band n25	25.7	19.7	25.7
Band n26	25.7	25.7	25.7
Band n30	25.7	22.9	25.7
Band n38	25.7	21.9	25.7
Band n41 (PC3)	25.7	21.9	25.7
Band n41 (PC2)	28.7	21.9	28.7
Band n48 Low Channel	25.3	22	25.6
Band n48 Mid Channel	25.3	22	25.6
Band n48 High Channel	25.3	22	25.6
Band n53	20.7	20.7	20.7
Band n66	25.7	19.6	25.7
Band n70	25.7	19.6	25.7
Band n71	25.7	25.7	25.7
Band n77 (PC3)	23.8	19	25.7
Band n77 (PC2)	23.8	19	28.7
Band n78 (PC3)	23.7	21.2	25.7
Band n78 (PC2)	23.7	21.2	28.7

Maximum Output Power –Ant2/8-UHB

Bands	OBD: 0 Power Table	OBD: 1 Power Table	Maximum Power Table
	Maximum (dBm)	Maximum (dBm)	Maximum (dBm)
GMSK 1 Slot			
850	32.5	32.5	32.5
1900	29.5	29.5	29.5
GMSK 2 Slot			
850	29.5	31.5	31.5
1900	27	27.3	28.5
8PSK 1 Slot			
850	27	27	27
1900	24.5	24.5	24.5
8PSK 2 Slot			
850	26	26	26
1900	23.5	23.5	23.5
WCDMA			
Band 2	21	21.3	23.7
Band 4	19.3	19	25.7
Band 5	23.5	24.7	24.7
LTE			
Band 2	21	21.3	23.7
Band 4	20	19.4	25.7
Band 5	23.5	24.7	24.7
Band 7	17.8	18.9	23.2
Band 12	24.7	24.7	24.7
Band 13	23.7	24.7	24.7
Band 14	23.7	24.7	24.7
Band 17	24.7	24.7	24.7
Band 25	21	21.3	23.7
Band 26	23.5	24.7	24.7
Band 30	20.4	19.2	23.2
Band 38	20.3	21.2	25.7
Band 41 (PC3)	20.3	21.2	25.7
Band 41 (PC2)	20.3	21.2	28.7
Band 48 Low channel	25.7	22.3	25.7
Band 48 Mid channel	25.7	22.3	25.7
Band 48 High channel	25.7	22.3	25.7
Band 66	20	19.4	25.7
Band 71	24.7	24.7	24.7
Band 5 2CA	23.5	24.7	24.7
Band 7 2CA	17.8	18.9	23.2
Band 38 2CA	20.3	21.2	25.7
Band 41 2CA (PC3)	20.3	21.2	25.7
Band 41 2CA (PC2)	20.3	21.2	28.7
Band 48 2CA	24.7	22.3	24.7
Band 53	20.3	20.7	20.7

NR1			
Band n2	21	21.3	23.7
Band n5	23.5	24.7	24.7
Band n7	17.8	18.9	23.2
Band n12	24.7	24.7	24.7
Band n14	23.7	24.7	24.7
Band n25	21	21.3	23.7
Band n26	23.5	24.7	24.7
Band n30	20.4	19.2	23.2
Band n38	18.3	19.2	25.7
Band n41 (PC3)	18.3	19.2	25.7
Band n41 (PC2)	18.3	19.2	28.7
Band n48 Low Channel	24.5	20.3	25.7
Band n48 Mid Channel	24.5	20.3	25.7
Band n48 High Channel	24.5	20.3	25.7
Band n53	18.3	19.2	20.7
Band n66	20	19.4	25.7
Band n70	20	19.4	25.7
Band n71	24.7	24.7	24.7
Band n77 (PC3)	23.6	20.1	25.7
Band n77 (PC2)	23.6	20.1	26.5
Band n78 (PC3)	24.1	20.5	25.7
Band n78 (PC2)	24.1	20.5	26.5

Maximum Output Power –Ant3/9

Bands	OBD: 0 Power Table	OBD: 1 Power Table	Maximum Power Table
	Maximum (dBm)	Maximum (dBm)	Maximum (dBm)
GMSK 1 Slot			
1900	31.5	30.8	31.5
GMSK 2 Slot			
1900	30.5	27.8	30.5
8PSK 1 Slot			
1900	26.5	26.5	26.5
8PSK 2 Slot			
1900	25.5	25.5	25.5
WCDMA			
Band 2	24.5	21.8	25.2
Band 4	24.2	22.3	25.2
LTE			
Band 2	24.5	21.8	25.2
Band 4	24.2	22.1	25.2
Band 7	23.1	21.1	25.2
Band 25	24.5	21.8	25.2
Band 30	24	22.3	25
Band 38	25.7	23.4	25.7
Band 41 (PC3)	25.7	23.4	25.7
Band 41 (PC2)	27.3	23.4	28
Band 48 Low channel	23.7	21.5	23.7
Band 48 Mid channel	22.9	21.5	22.9
Band 48 High channel	22.5	21.5	22.5
Band 66	24.2	22.1	25.2
Band 7 2CA	23.1	21.1	25.2
Band 38 2CA	25.7	23.4	25.7
Band 41 2CA (PC3)	25.7	23.4	25.7
Band 41 2CA (PC2)	27.3	23.4	28
Band 48 2CA Low Channel	23.7	21.5	23.7
Band 48 2CA Mid Channel	22.9	21.5	22.9
Band 48 2CA High Channel	22.5	21.5	22.5
NR1			
Band n2	24.5	21.8	25.2
Band n7	23.1	21.1	25.2
Band n25	24.5	21.8	25.2
Band n30	24	22.3	25
Band n38	25.3	21.4	25.7
Band n41 (PC3)	25.3	21.4	25.7
Band n41 (PC2)	25.3	21.4	28
Band n48 Low Channel	22.2	19.5	23.7
Band n48 Mid Channel	22.2	19.5	22.9
Band n48 High Channel	22.2	19.5	22.5
Band n66	24.2	22.1	25.2
Band n70	24.2	22.1	25.2

Band n77 (PC3)	21.6	18.9	25.7
Band n77 (PC2)	21.6	18.9	28.7
Band n78 (PC3)	21.6	19.4	25.7
Band n78 (PC2)	21.6	19.4	28.7

Maximum Output Power –Ant4

Bands	OBD: 0 Power Table	OBD: 1 Power Table	Maximum Power Table
	Maximum (dBm)	Maximum (dBm)	Maximum (dBm)
GMSK 1 Slot			
1900	28	28	29
GMSK 2 Slot			
1900	25.8	27.7	28
8PSK 1 Slot			
1900	24	24	24
8PSK 2 Slot			
1900	23	23	23
WCDMA			
Band 2	20	21.6	23.2
Band 4	19.8	21.7	25.7
LTE			
Band 2	19.8	21.7	23.2
Band 4	20	21.8	24.2
Band 7	21.5	21.2	23.2
Band 25	19.8	21.7	23.2
Band 30	20.4	19.9	23.2
Band 38	24.4	24.7	25.7
Band 41 (PC3)	24.4	24.7	25.7
Band 41 (PC2)	24.4	24.7	28
Band 48 Low channel	20.5	22.4	25
Band 48 Mid channel	20.5	22.4	25
Band 48 High channel	20.5	22.4	25
Band 66	20	21.8	24.2
Band 7 2CA	21.5	21.2	23.2
Band 38 2CA	24.4	24.7	25.7
Band 41 2CA (PC3)	24.4	24.7	25.7
Band 41 2CA (PC2)	24.4	24.7	28
Band 48 2CA	20.5	22.4	24
L-Band	#N/A	23.4	28.7
NR1			
Band n2	19.6	21.7	23.2
Band n7	21.5	21.2	23.2
Band n25	19.6	21.7	23.2
Band n30	20.4	19.9	23.2
Band n38	22.4	22.7	25.7
Band n41 (PC3)	22.4	22.7	25.7
Band n41 (PC2)	22.4	22.7	28

Band n48 Low Channel	18.5	20.4	25
Band n48 Mid Channel	18.5	20.4	25
Band n48 High Channel	18.5	20.4	25
Band n66	20	21.8	24.2
Band n70	20	21.8	24.2
Band n77 (PC3)	18.9	20.3	25
Band n77 (PC2)	18.9	20.3	25
Band n78 (PC3)	18.2	19.7	25
Band n78 (PC2)	18.2	19.7	25