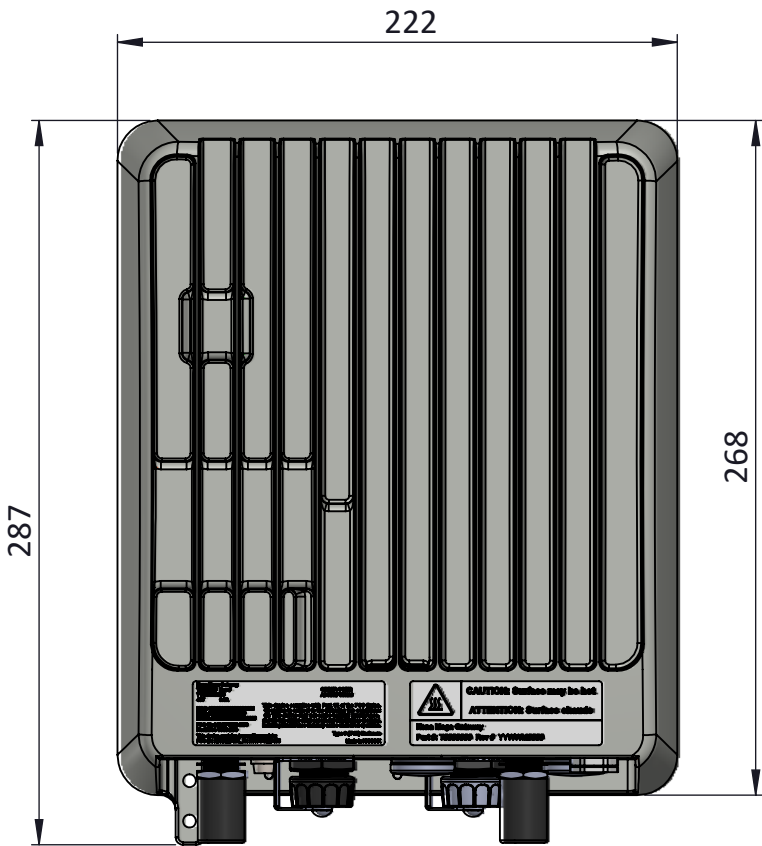


REVISIONS		
REV.	DESCRIPTION	DATE
A		11-Jul-2016
B	UPDATED BOM, MODULE VIEWS AND DESCRIPTIONS	17-Jan-2017
C	UPDATED BOM - ADDED LABELS, GND HARDWARE	10-Mar-2017
C	UPDATED TABLE B	20-Mar-2017
D	UPDATED BOM AND ASSEMBLY INSTRUCTIONS, RENAMED ALL EXISTING CONFIGURATIONS, ADDED NEW CONFIGURATIONS	13-Sep-2017
D	UPDATED TITLES & PACKAGING; ADDED NEW CONFIGURATIONS	03-Apr-2018
E	ADDED REACH NOTE, DISH CONFIGURATION, ACCESSORY PAGE	30-Jul-2018
F	ASSIGNED T-CODE TO BAR CODE LABEL, CORRECTED TYPO ON PAGE 2, UPDATED TABLE C AND PACKAGING NOTES	21-Nov-2018
G	UPDATED REVISION DUE TO PCBA UP-REV	25-Jun-2019
G	ADDED CONFIGURATIONS - T0006502, T0006503	26-May-2020
H	UPDATED BOM AND STEP 2&3, UPDATED CONFIGURATIONS, UPDATED PACKAGING AND SHIPPING	22-Sep-2021
I0	UPDATED PCB/PCBA, CONFIGURATIONS, BOMS, SAFETY & REGULATORY LABELS, TABLE C-PACKAGING AND SHIPPING	07-Jun-2022
I1	REMOVED UL50E O-RINGS FROM NA FDD MODULES; ADDED LOCTITE TO VENT THREAD	20-Sep-2022
I2	ADDED UL 50E VMQ ORINGS TO NA MODULES	07-Jul-2023

NOTES:

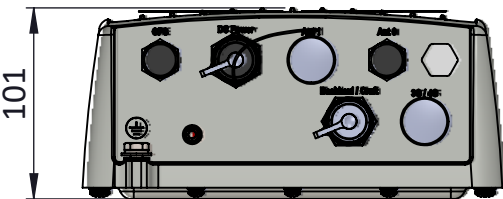
- DRAWING DIMENSIONS ARE FOR REFERENCE AND INSPECTION ONLY. THE ASSOCIATED 3D CAD FILE IS THE PRIMARY DIMENSION REFERENCE.
- ALL DIMENSIONS IN MM [INCHES]
- UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:
DIMENSIONS: X ±0.5
X.X ±0.25
X.XX ±0.1
X.XXX ±0.05
ANGLES: ±1.0°
- ALL MATERIALS, FINISHES AND MANUFACTURING PROCESSES SHALL BE COMPLIANT WITH EU DIRECTIVES 2011/65 & 2015/863 (RoHS 3)
- ALL MATERIALS, FINISHES AND PACKAGING SHALL BE COMPLIANT WITH EU DIRECTIVE 1907/2006 (REACH) AND THE CURRENT LIST OF SvHC.
- THIS PRODUCT SHALL BE BUILD TO THE REQUIREMENTS LISTED IN TEKTELIC PRODUCT WORKMANSHIP STANDARD A0001043.
- LABELS SHALL BE MADE ACCORDING TO TEKTELIC SERIALIZATION AND LABELING STANDARD A0001010.
- SEE TABLE C FOR PACKAGING AND SHIPPING SPECIFICATIONS.



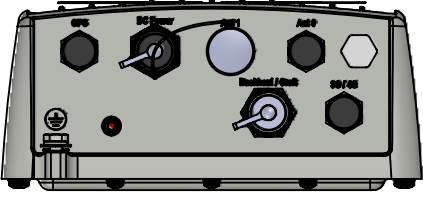
TITLE:
LORA GATEWAY MODULE, KONA MEGA, NA FDD, OPTION #1

DWG NO.	REVISION	SIZE
T0004142	I2	A3

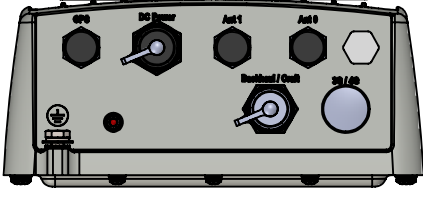
CONFIGURATIONS	
Part Number	Description
/ T0004142 / T0004974 / T0004978 / T0004988 / T0004996 / T0005004 /	LORA GATEWAY MODULE, KONA MEGA, / NA FDD / EU TDD /AUS TDD /SGP TDD / JPN TDD / BRA TDD /, OPTION #1
/ T0004470 / T0004719 / T0004980 / T0004990 / T0004998 / T0005006 /	LORA GATEWAY MODULE, KONA MEGA, / NA FDD / EU TDD /AUS TDD /SGP TDD / JPN TDD / BRA TDD /, OPTION #2
/ T0004537 / T0004946 / T0004982 / T0004992 / T0005000 / T0005008 / T0007754 /	LORA GATEWAY MODULE, KONA MEGA, / NA FDD / EU TDD /AUS TDD /SGP TDD / JPN TDD / BRA TDD / IOTA FDD /, OPTION #3
/ T0004250 / T0004976 / T0004984 / T0004994 / T0005002 / T0005010 / T0007752 /	LORA GATEWAY MODULE, KONA MEGA, / NA FDD / EU TDD /AUS TDD /SGP TDD / JPN TDD / BRA TDD / IOTA FDD /, OPTION #4
T0004251	LORA GATEWAY MODULE, KONA MEGA, NA FDD, OPTION #5
/ T0004252 / T0006502 /	LORA GATEWAY MODULE, KONA MEGA, / NA FDD / EU TDD /, OPTION #6
T0006503	LORA GATEWAY MODULE, KONA MEGA, EU TDD, OPTION #7



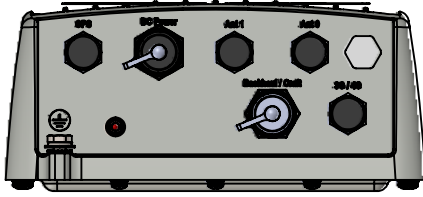
OPTION #1:
DC Power, 1x LORA
T0004142
T0004974
T0004978
T0004988
T0004996
T0005004



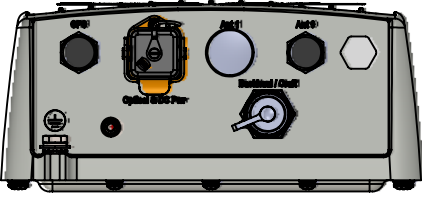
OPTION #2:
DC Power, 1x LoRA, 3G/4G
T0004470
T0004719
T0004980
T0004990
T0004998
T0005006



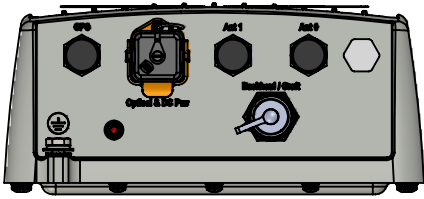
OPTION #3:
DC Power, 2x LoRA
T0004537
T0004946
T0004982
T0004992
T0005000
T0005008
T0007754



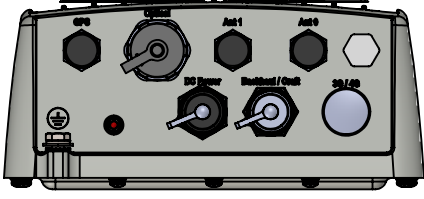
OPTION #4:
DC Power, 2x LoRA, 3G/4G
T0004250
T0004976
T0004984
T0004994
T0005002
T0005010
T0007752



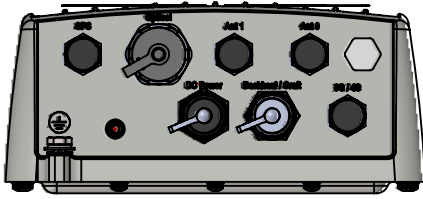
OPTION #5:
1x LoRA, OPTICAL & DC Power
T0004251



OPTION #6:
2x LoRA, OPTICAL & DC Power
T0004252



OPTION #6:
2x LoRA, EU OPTICAL, DC Power
T0006502



OPTION #7:
2x LoRA, EU OPTICAL, DC Power, 3G/4G
T0006503

TITLE:

LORA GATEWAY MODULE, KONA MEGA, NA FDD,
OPTION #1

DWG NO. T0004142	REVISION 12	SIZE A3
SCALE:1:4		SHEET 2 OF 6

BOM Table				
ITEM NO.	PART NUMBER	DESCRIPTION	NA MODULE / QTY.	OTHER MODULE / QTY.
1	Radio Assy, see Table B	SEE TABLE B	1	1
2	T0004263	ENVIRONMENTAL & EMI GASKET, HOLLOW CO-EXTRUDED B-STRIP, 3.2X3.63X1.6MM, 853MM CLOSED LOOP	1	1
3	T0004139	LID, KONA MEGA	1	1
4	T0004116	FLAT WASHER, M4 X 9MM OD, DIN 125 TYPE A, STAINLESS STEEL GRADE A4 (316)	20	20
5	T0004117	SPLIT LOCK WASHER, M4, DIN 127 STAINLESS STEEL GRADE A4 (316)	20	20
6	T0005027	SCREW, PAN HEAD, PHILLIPS DRIVE, M4 X 0.7 - 12 MM, DIN 7985, ALLOY 316 SST	20	20
7	T0004203	PROTECTIVE VENT, STANDARD AIRFLOW, M12 X 1.5, GREY	1	1
8	T0004636	LABEL, HOT SURFACE WARNING, KONA MEGA	1	1
9	See Table Item X	LABEL, SEE TABLE ITEM X	1	1
10	T0007357	LABEL, SAFETY AND REGULATORY, KONA MEGA IOTA	1	1
11	T0004301	WASHER, EXTERNAL TOOTH LOCK, 1/4" BOLT, 0.494" OD, 410 STAINLESS STEEL	2	2
12	T0004300	WASHER, FLAT, 1/4" BOLT, 0.625" OD, STAINLESS STEEL 316	2	2
13	T0004640	SPLIT LOCK WASHER, 1/4", 316 SST	2	2
14	T0004299	BOLT, HEX HEAD, 1/4-20 X 0.625", 316 STAINLESS STEEL	2	2
15	T0005930	LABEL, TEKTELIC SERIAL NUMBER BAR CODE, 0.75"X0.25"	1	1
16	T0001972	LOCTITE® 425™, THREAD LOCKING ADHESIVE FOR METAL AND PLASTICS FASTENERS	0.05ml	0.05ml
17	T0008745	O-RING GASKET, SIZE AS568-110, UL50E APPROVED VMQ, 70 SHORE A	1	-

Table B - VARIATIONS OF BOM		
CONFIGURATIONS	ITEM 1 - PART NUMBER	ITEM 1 - DESCRIPTION
/ T0004142 / T0004974 / T0004978 / T0004988 / T0004996 / T0005004 /	/ T0004141 / T0004975 / T0004979 / T0004989 / T0004997 / T0005005 /	RADIO ASSEMBLY, KONA MEGA, / NA FDD / EU TDD /AUS TDD /SGP TDD / JPN TDD / BRA TDD /, DC POWER, 1X LORA
/ T0004470 / T0004719 / T0004980 / T0004990 / T0004998 / T0005006 /	/ T0004653 / T0004720 / T0004981 / T0004991 / T0004999 / T0005007 /	RADIO ASSEMBLY, KONA MEGA, / NA FDD / EU TDD /AUS TDD /SGP TDD / JPN TDD / BRA TDD /, DC POWER, 1X LORA, 3G/4G
/ T0004537 / T0004946 / T0004982 / T0004992 / T0005000 / T0005008 / T0007754 /	/ T0004538 / T0004947 / T0004983 / T0004993 / T0005001 / T0005009 / T0007753 /	RADIO ASSEMBLY, KONA MEGA, / NA FDD / EU TDD /AUS TDD /SGP TDD / JPN TDD / BRA TDD / IOTA FDD /, DC POWER, 2X LORA
/ T0004250 / T0004976 / T0004984 / T0004994 / T0005002 / T0005010 / T0007752 /	/ T0004247 / T0004977 / T0004985 / T0004995 / T0005003 / T0005011 / T0007751 /	RADIO ASSEMBLY, KONA MEGA, /NA FDD/EU TDD/AUS TDD/SGP TDD/JPN TDD/BRA TDD/IOTA FDD/, DC POWER, 2X LORA, 3G/4G
T0004251	T0004248	RADIO ASSEMBLY, KONA MEGA, NA FDD, OPTICAL & DC POWER, 1X LORA
/ T0004252 / T0006502 /	/ T0004249 / T0006500 /	RADIO ASSEMBLY, KONA MEGA, /NA FDD/EU TDD/, OPTICAL & DC POWER, 2X LORA
T0006503	T0006501	RADIO ASSEMBLY, KONA MEGA, EU TDD, OPTICAL, DC POWER, 2X LORA, 3G/4G

Item X Table - Safety & Regulatory Label		
CONFIGURATIONS	ITEM 10 - PART NUMBER	ITEM 10 - DESCRIPTION
T0004142, T0004470, T0004537, T0004250, T0004251, T0004252, T0005519, T0007754, T0007752	T0004637	LABEL, SAFETY & REGULATORY, KONA MEGA NA
T0004974, T0004719, T0004946, T0004976, T0006502, T0006503	T0005019	LABEL, SAFETY & REGULATORY, KONA MEGA EU
T0004978, T0004980, T0004982, T0004984	T0005020	LABEL, SAFETY & REGULATORY, KONA MEGA AUS
T0004988, T0004990, T0004992, T0004994	T0005021	LABEL, SAFETY & REGULATORY, KONA MEGA SGP
T0004996, T0004998, T0005000, T0005002	T0005022	LABEL, SAFETY & REGULATORY, KONA MEGA JPN
T0005004, T0005006, T0005008, T0005010	T0007613	LABEL, SAFETY & REGULATORY, KONA MEGA BRA
T0007752, T0007754	T0008241	LABEL, SAFETY & REGULATORY, KONA MEGA IOTA

TITLE:

LORA GATEWAY MODULE, KONA MEGA, NA FDD, OPTION #1

DWG NO.
T0004142

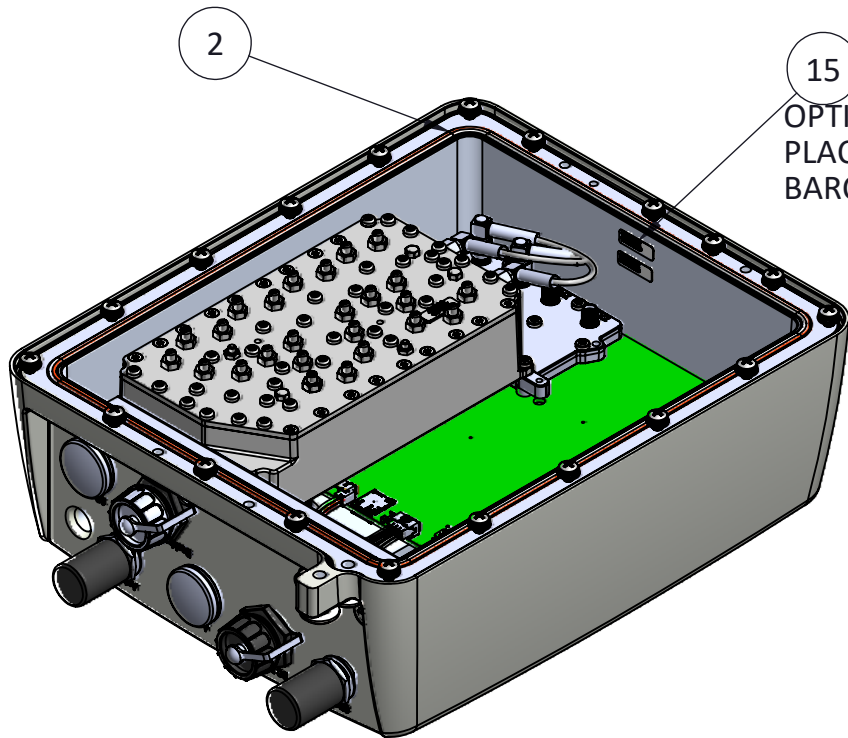
REVISION
12

SIZE
A3

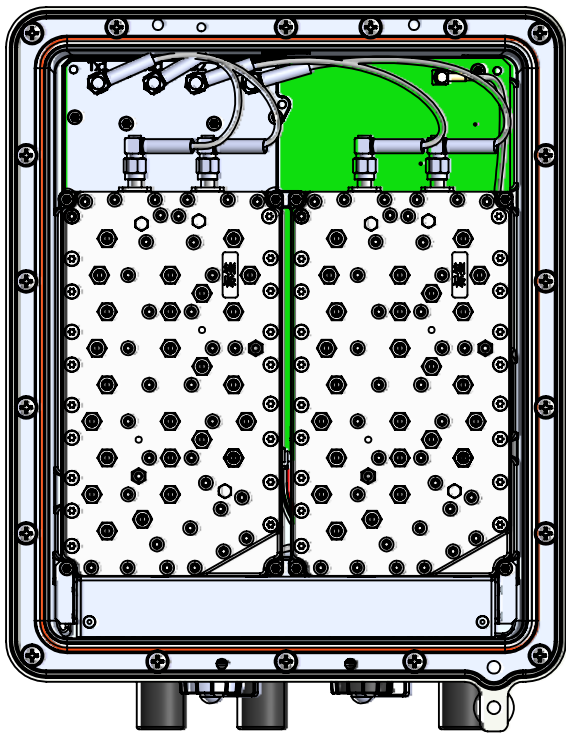
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SHEET 3 OF 6

STEP #1
INSERT ENVIRONMENTAL GASKET, T0004263, INTO GROOVE OF THE RADIO CHASSIS.
ENSURE GASKET IS FULLY SEATED IN GROOVE, WITH ORANGE COLOR ON OUTSIDE AND GRAY
COLOR ON INSIDE OF THE LOOP.
DO NOT CUT GASKET TO FIT.

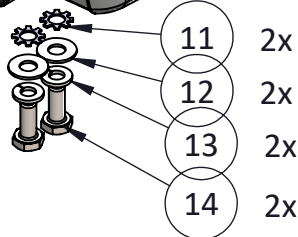
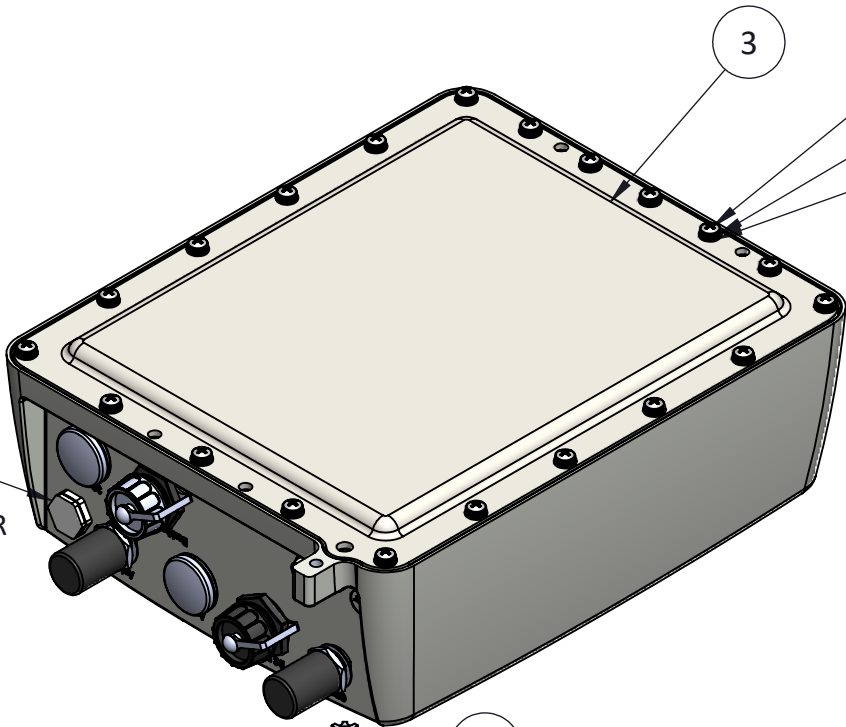


MODULES WITH 1X LORA

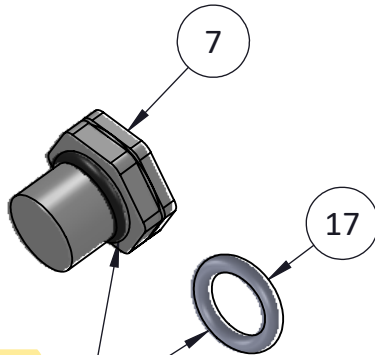


MODULES WITH 2X LORA

7
APPLY LOCTITE TO THREAD AND
TIGHTEN PROTECTIVE VENT AFTER
UNIT PASSES PRESSURE TEST



ONLY APPLY TO NA MODULES:
REPLACE GASKET



STEP #2
FIRST, CLOSE LID, T0004139, TO THE CHASSIS WITH 20x SCREWS, LOCK WASHERS AND FLAT
WASHERS, T0001859, T0004117, AND T0004116. TIGHTEN SCREWS IN A CROSS
PATTERN, TIGHTEN EACH SCREW TWICE.
SECOND, TIGHTEN GROUND CABLE HARDWARE, 2X (T0004299, T0004300,
T0004301, T0004640), TO HALF OF THE TORQUE SPEC. VALUE.
SEE TABLE A

STEP #3
FIRST, DO A PRESSURE LEAK TEST PER DOCUMENT T0004279_XS.
SECOND, AFTER THE UNIT PASSES THE TEST, APPLY LOCTITE 425, T0001972, TO THREAD AND TIGHTEN
PROTECTIVE VENT, T0004203, TO CHASSIS.
FOR NA MODULES ONLY: REPLACE THE O-RING GASKET ON THE VENT WITHN AN UL 50E APPROVED GASKET, T0008745.
SEE TABLE A.

Table A - TOOL SPEC.

PART NUMBER	TOOL STYLE	TOOL SIZE	TORQUE - Nm ±10%	ASSEMBLY REF
T0005027	PHILLIPS	#2	1.8	STEP #2
T0004203	6 POINT SOCKET	17mm	0.7	STEP #3
T0004299		5mm	10.4	STEP #2

TITLE: LORA GATEWAY MODULE, KONA MEGA, NA FDD, OPTION #1		
DWG NO. T0004142	REVISION 12	SIZE A3
SCALE:1:3		SHEET 4 OF 6

STEP #4
APPLY LABELS AT THE LOCATION SHOWN



TITLE: LORA GATEWAY MODULE, KONA MEGA, NA FDD, OPTION #1		
DWG NO. T0004142	REVISION 12	SIZE A3
SCALE:1:3		SHEET 5 OF 6

Table C - Packaging and Shipping Options					
Packaging Options		Shipping on EUR1 Pallet		Shipping on EUR2 / NA Pallet	
Part Number	Description	Part Number	Description	Part Number	Description
T0005470	PACKAGING SPECIFICATION, KONA MEGA, FOAM INSERT	T0007659	SHIPPING SPECIFICATION, EUR1 PALLET, PACKAGE IN BOX T0007655	T0007614	SHIPPING SPECIFICATION, EUR2/NA PALLET, PACKAGE IN BOX T0007655
T0007653	PACKAGING SPECIFICATION, KONA MEGA, HONEYCOMB INSERT	T0008219	SHIPPING SPECIFICATION, EUR1 PALLET, PACKAGE IN BOX T0008214	T0008218	SHIPPING SPECIFICATION, EUR2/NA PALLET, PACKAGE IN BOX T0008214

TITLE:

LORA GATEWAY MODULE, KONA MEGA, NA FDD, OPTION #1

DWG NO.
T0004142

REVISION
12

SIZE
A3

SCALE:1:5

SHEET 6 OF 6