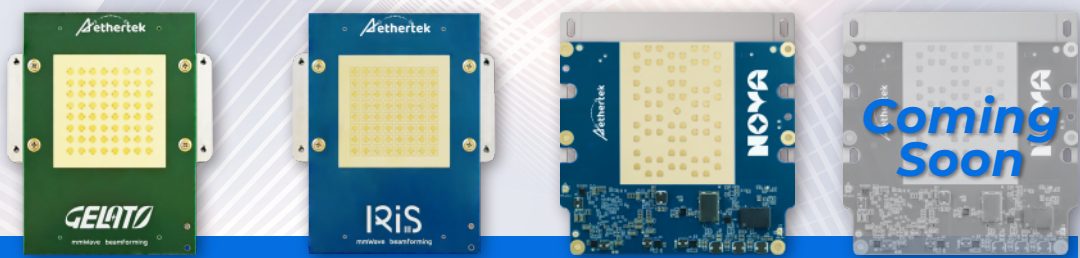
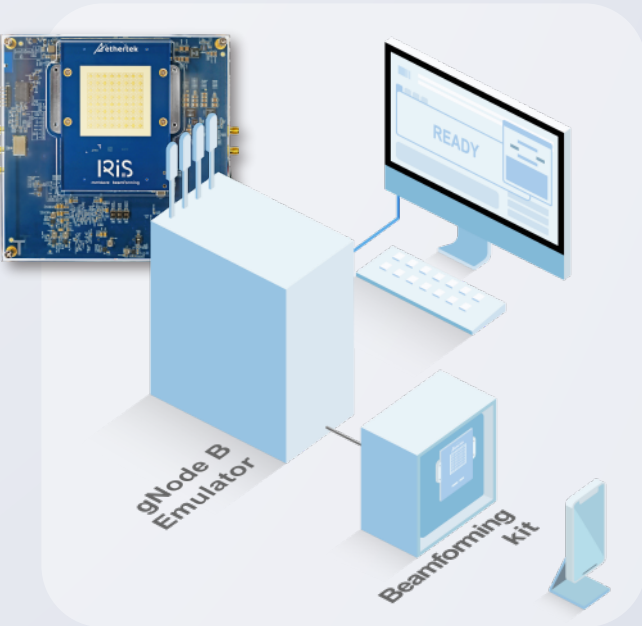


Antenna-in-Module Solutions

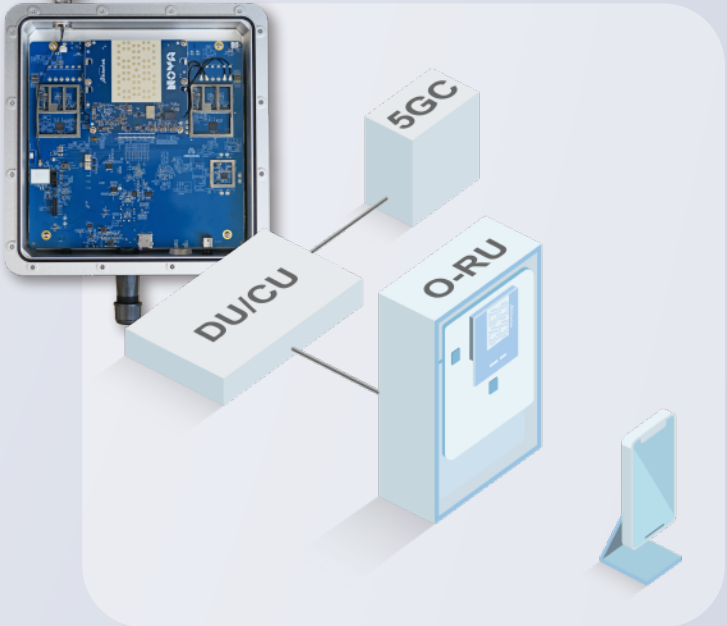


	n258	n257	n258	n257
Max EIRP (V+H)	50dBm	50dBm	50dBm	50dBm
Beam Scan Angle (Azimuth)	+/- 60	+/- 60	+/- 60	+/- 60
Beam Scan Angle (Elevation)	+/- 60	+/- 60	+/- 20	+/- 20
Min EIRP over scan angle	44dBm	44dBm	43dBm	43dBm
EVM (NR/TM3.1a/400MHz)	<2.5%	<2.5%	<1.8%	<1.8%
ACLR (NR/TM3.1a/400MHz)	<-28dBc	<-28dBc	<-28dBc	<-28dBc
Cross-pol Leakage	>30dB	>30dB	>25dB	>25dB
Noise Figure	<6.5dB	<6.5dB	<6.5dB	<6.5dB
Transmitter Gain	65dB	60dB	68dB	68dB
Receiver Gain	58dB	58dB	45dB	45dB
Antenna Element	64	64	64	64
Polarization	Linear V and H	Linear V and H	+/-45 degrees	+/-45 degrees
Front to Back Ratio	>28dB	>28dB	>28dB	>28dB
HPBW (El/Az)	14deg/14deg	14deg/14deg	9deg/14deg	9deg/14deg
Gain Control Range	22.5dB	22.5dB	30dB	30dB
TDD Switching Time	250ns	250ns	200ns	200ns
Beam Switching Time	0.35us	0.35us	0.5us	0.5us

HOYA Lite



ALBIZIA



mmWave Solutions for 5G & Beyond

5G FR2 Split 7.2
RU Solution



mmWave NR Beamforming
Development Tool



✉ perrylin@aether-tek.com
☎ +886-2-2658-2068
📍 9F No. 607, Ruiguang Rd., NeihuDist., Taipei City 114, Taiwan



Semi-Turnkey Solution

"ALBIZIA"

The ultimate solution for 5G NR FR2 RU development

Albizia is a next-generation FR2 O-RU solution, designed to accelerate mmWave RU development with a powerful semi-turnkey platform and intuitive GUI

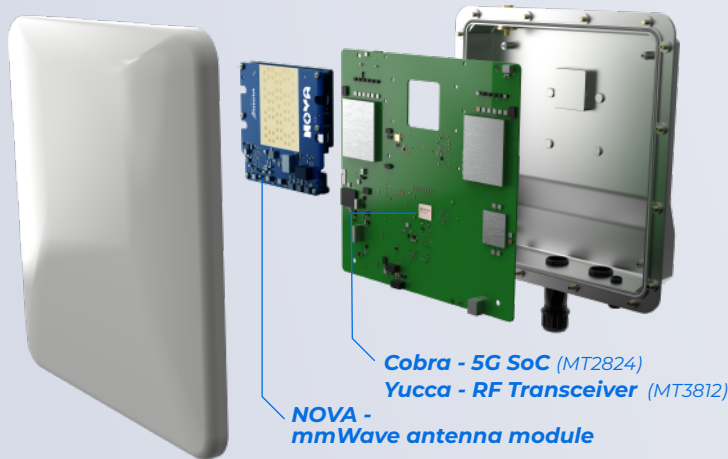


Aethertek

- NOVA - mmWave antenna module
- Graphic User Interface

Metanoia

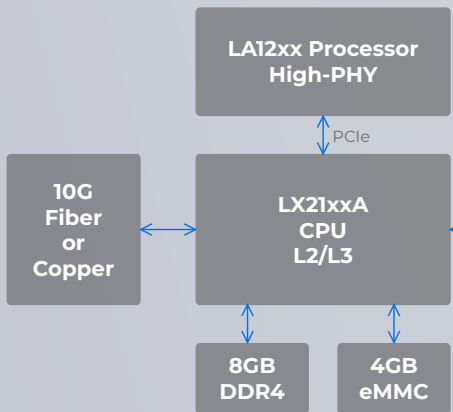
- Cobra - 5G Baseband SoC (MT 2824)
- Yucca - RF Transceiver (MT3812)



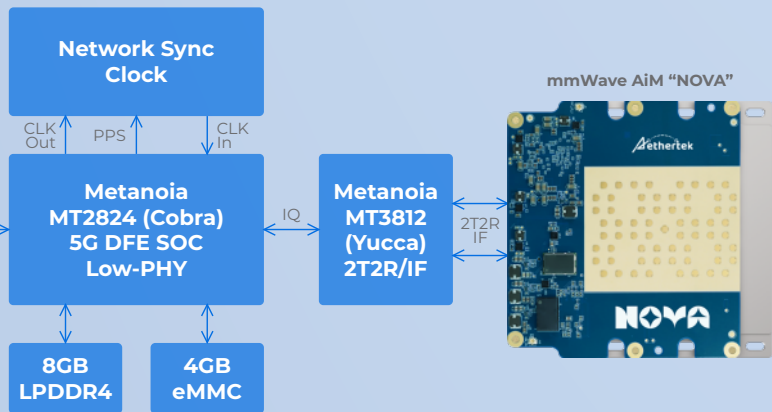
Cobra - 5G SoC (MT2824)
Yucca - RF Transceiver (MT3812)
NOVA - mmWave antenna module

- **Semi-Turnkey Platform**
Eliminate lengthy R&D cycles, accelerate time-to-market
- **Energy Efficiency**
Reduce power consumption, lower OPEX and carbon footprint
- **Full 3GPP 5G FR2 Compliance**
Designed to fully comply with 3GPP Release 15/16/17 specifications for 5G NR in FR2 frequency bands (n257 or n258)

Embedded DU/CU

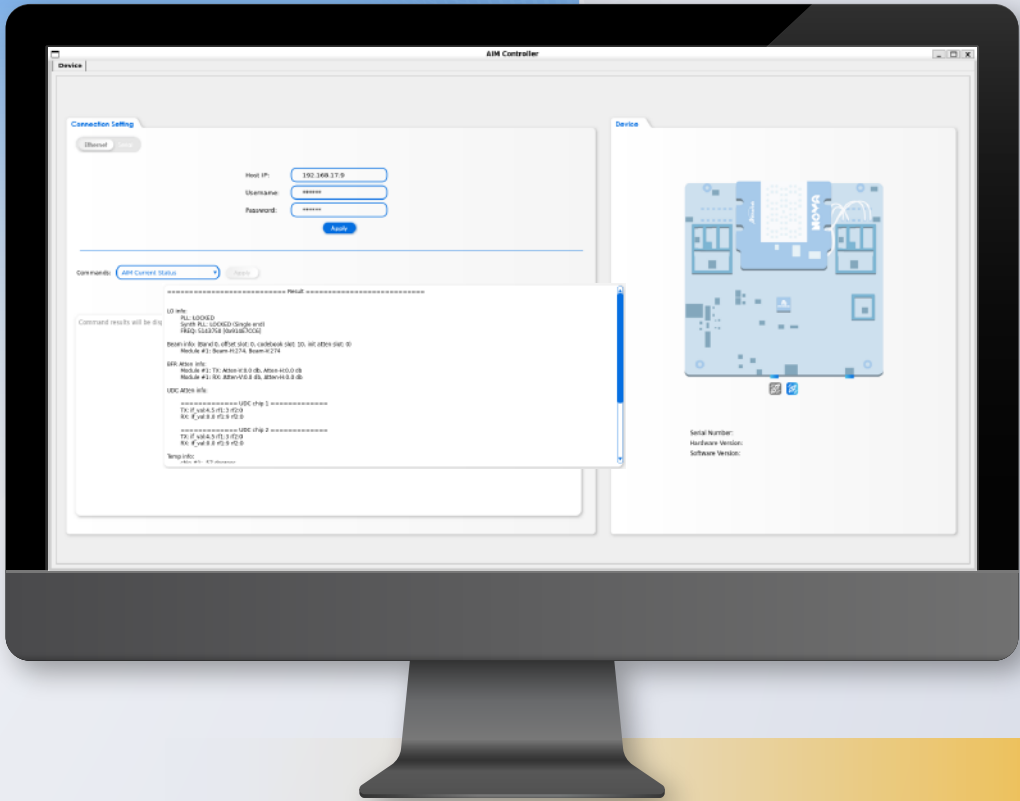


5G FR2 O-RU (ALBIZIA)



INTUITIVE USER INTERFACE

Users can activate 5G waveform via Cobra - 5G SoC (MT 2824), and the EVK "Albizia" GUI allows them to select the default 64 beam IDs or upload custom beam IDs in CSV format, making it ideal for network deployment planning.



Commercial



Laboratory



Academic

KEY PARAMETERS

- ATTENUATION

Commands:

Args: TX/RX Mode: gain: dB

- SWITCH BEAM ID

Commands:

Args: Mode: Beam ID (V): (H):

- CURRENT STATUS

Commands:

- TEMPERATURE

Commands:

"Your Lab in a Box" – 5G NR beamforming, ready wherever you are

- **Carry & Go EVK**
Demo on the go, no more heavy instrument
- **Instant Access**
Built-in 1024 Beam IDs for rapid setup
- **Smart Flex UI**
Intuitive control for beam maps, attenuation, and temperature monitoring
- **Beyond Boundaries**
Indoor or outdoor coverage, 500+ meters range