TIMBER SWEET
AUSTRALIA

BLINK · BEYOND LINE-OF-SIGHT LINK

Put the tactical network where the mission needs it.

A distributed communications architecture. BLink separates the RF edge of a tactical data link from its secure processing, so tactical network access can be placed wherever the mission requires it. Developed by Timber Sweet. Supplied and supported in Australia by Timber Sweet Australia.

RED/BLACK SEPARATION | IP TRANSPORT | NO CRYPTO FORWARD | PLEO READY



No crypto
ON THE FORWARD EDGE

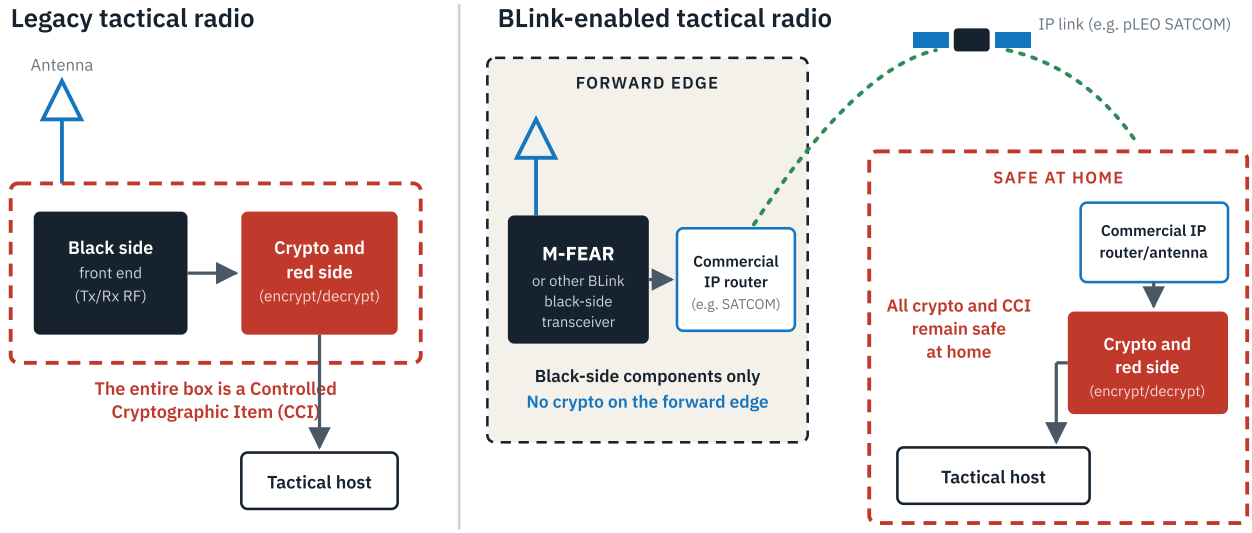
Any IP link
FOR EXAMPLE PLEO SATCOM

One-to-many
THROUGH THE BLINK CONTROLLER

RED/BLACK GEOGRAPHIC SEPARATION

Close the local link. Extend it globally. Keep crypto secure.

The key enabler behind BLink is the ability to separate the red side and the black side of the tactical radio. The growth of proliferated low earth orbit (pLEO) satellite communication networks, such as Starlink, has made this possible around the world.



01 · Forward edge

No crypto on the platform

Only black-side components go forward. A lost platform does not put a Controlled Cryptographic Item at risk.

02 · Transport

Any IP link

Distributed radio components connect over IP, for example pLEO SATCOM, to extend, relocate or create coverage.

03 · Network

No changes to the network

Works without changes to the existing tactical network or its participants.

WHAT BLINK ENABLES

Tactical communications for platforms that never had them.

BLink enables tactical communications to and from new platforms and nodes that had never been able to support this capability.

The smaller size, lower weight, affordable price, and the fact that the crypto/CCI is not on the forward deployed node or platform, allow this capability to be deployed at ranges and scale that were previously impossible.

THE ARCHITECTURE

Three layers. One distributed tactical network.



01 · M-FEAR

The distributed RF edge

A miniature, affordable tactical RF node that moves the tactical network's RF boundary onto aircraft, UAS, ground nodes and other forward platforms. The world's most affordable Link 16 transceiver.

02 · BMC

The network control layer

The BLink Multi-point Controller: one-to-many operation, virtual radios and central management of BLink nodes.

03 · PULSE-M

Spectrum awareness and assurance



Distributed monitoring of Link 16 activity, network density and potential interference, all without crypto.



THE RF EDGE, FORWARD

An M-FEAR on a long-endurance UAV becomes a BLink node.

NEW MISSION SETS

01	02	03	04	05
BLOS Link 16	Thickening legacy networks	BOLT: BLOS to fighters, no mods	Passive sensing	Hide in plain sight

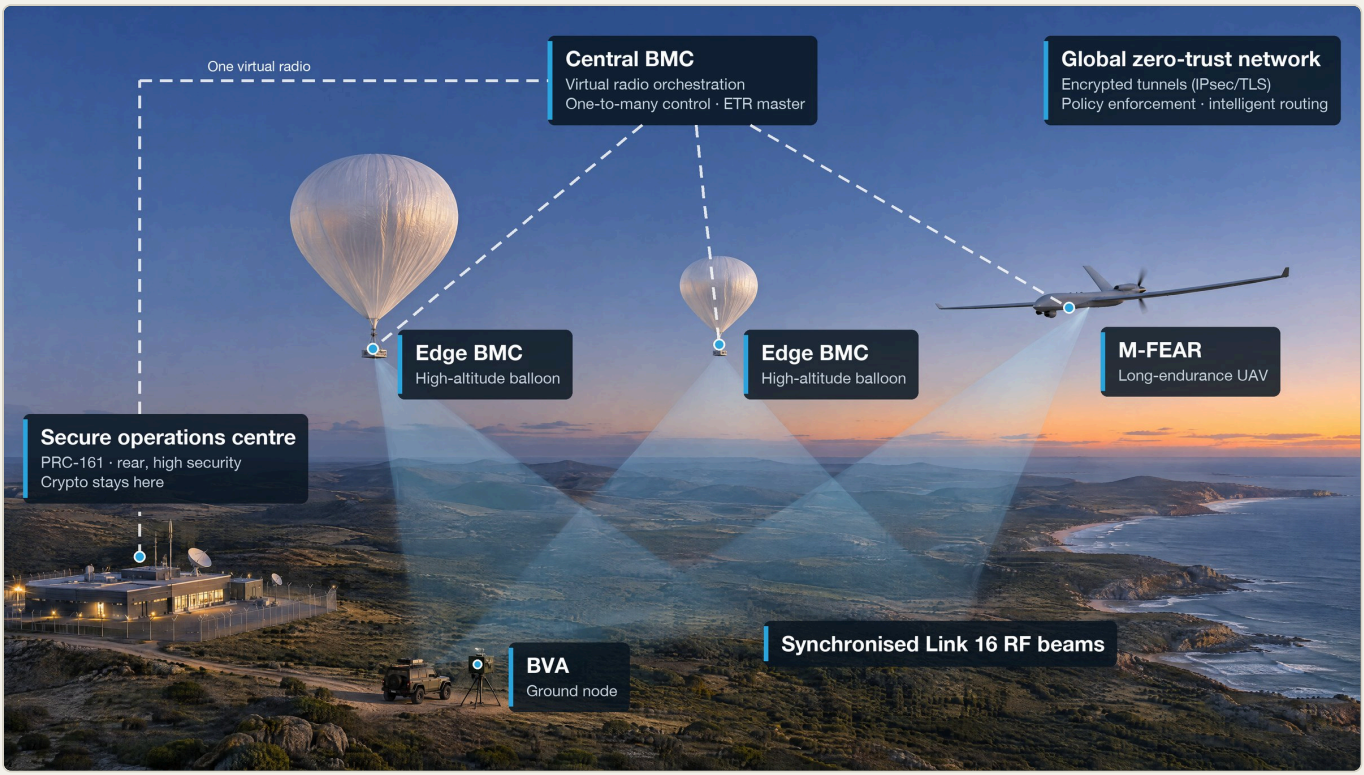
AVAILABILITY: COMING SOON, MID 2027

ITEM	PART NUMBER
M-FEAR transceiver	TSC-MFR-001
BLink Multi-point Controller (BMC)	TSC-BLK-003
M-FEAR support equipment	LITE KIT: MFEAR

BLINK MULTI-POINT CONTROLLER

One-to-many Link 16 and virtual radio operations.

A central BMC in a secure operations centre provides virtual radio orchestration, one-to-many control and timing to edge BMCs and M-FEAR nodes, for example on high-altitude balloons or long-endurance UAVs, over a global zero-trust network with encrypted tunnels.



BLink virtual radio concept. Illustration based on a Timber Sweet concept.

EXPANSION OF BLINK

>50

M-FEAR A MONTH

Full-rate M-FEAR production from mid 2027.

Also on the roadmap: additional waveforms (for example Link 182, SATURN and TTNT), modernised crypto solutions, virtual BMC deployment, remote network assurance monitoring, and simple operation and deployment.

CONTACT US

Talk to Timber Sweet Australia about BLink.

Ask for a briefing, a quote or an integration discussion. A director will come back to you.

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BLink is developed by Timber Sweet (USA). For U.S. and other international enquiries, please contact Timber Sweet: timber-sweet.com

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