

SubpicoCAT – Appliance Product Guide



Subpico Pty Ltd

16 McDougall Street
Milton, Queensland 4064, Australia

Brian Parsons
brianparsons@subpicocat.com
subpicocat.com

Makrópa Kft — EU delivery partner

Bodor u. 12, Budapest H1138, Hungary

Méhes Krisztián
+36 20 915 6070
mk@makropa.hu
makropa.hu/en

Specifications

One design, three sizes. Every model runs the same software and takes any role; they differ only in port count and where they live.

The lineup

One design language, in the size that fits — on a desk or in the rack, copper or fibre.

Model	Form factor	Network ports	Console & power
SubpicoCAT-2	Desktop / set-top	2× RJ45	1× HDMI · 2× USB · 12 V DC
SubpicoCAT-6	Desktop / set-top	6× RJ45	1× HDMI · 2× USB · 12 V DC
SubpicoCAT-8	1RU rackmount	8× RJ45	1× HDMI · 2× USB · 12 V DC
SubpicoCAT Gateway	1RU rackmount	6× RJ45 / 4× SFP	1× HDMI · 2× USB · 12 V DC



Left: Transmit and Recieve Fibers connected to 2x GE Rx-only ports.

Below: Subpico Blackbox Tactical Probe - Retail/Wholesale Multiprotocol Asymmetric fabric(different up/down paths on seperate physical links) WAN and LAN G/10/100+ Gb/s



A SubpicoCAT Gateway appliance

Protect and Deter

SubpicoCAT® WAN appliances protect, route and observe live networks — one compact unit that becomes a sensor, a router, a combined unit or a fleet manager by configuration.

Fanless, silent and built to run untouched for years, in a desktop set-top for the edge or a 1RU chassis for the rack.

Connected to the Interlace global network or fully private (air-gapped), every unit's protection is always active. Each unit defends itself and everything behind it.

One unit, every role

Every SubpicoCAT unit runs the same base — **SubpicoCAT RTOS**, our own real-time operating system. Tell it what to be and it takes on the job: the same hardware serves as a sensor, a router, a combined unit or a fleet manager, by configuration alone.



One unit, four roles — and a lab CAT cluster on live WAN traffic: one unit per vertical (IoT, medical, finance, enterprise).

Sensor — watches the traffic that matters and defends the network behind it.

Router — connects and segments sites, offices and subnets.

Combo — sensor and router in one box, for the edge and the lab.

Management — runs a fleet of units from one place.

Managed or unmanaged — your choice. Order any model **unmanaged** — no management port, operated only from its own screen and keyboard, for a true air-gap in the strictest security installations — or **managed**, administered remotely from the Subpico Interlace platform.

What every unit delivers

The real-time edge. Traffic is validated and acted on at line rate, with a sub-100 microsecond response. Forwarding is never held up by inspection — the path that carries your traffic and the path that studies it are kept separate and never blurred.

Active defence, always on. A built-in threat detection engine identifies devices and applications on the wire, spots covert channels and lateral movement, and blocks what crosses the line — automatically. Every detection is written as a structured record you can read, keep and share.

Data paths you can prove. Ports can be set to receive-only, transmit-only, or receive–process–transmit. A one-way feed is physically one-way, with no back-channel

Deterministic under load. No fans, no moving parts, no jitter. **SubpicoCAT RTOS** — our own real-time operating system — keeps latency bounded, so the unit behaves the same at 3 a.m. under attack as it does on the bench.

Runs offline, runs sovereign. A unit needs nothing in the cloud to do its job. Operate a single box on its own, a fully private closed network, or connect optionally to the Interlace global network for live shared intelligence — the protection is the same either way.

Physical & I/O

SubpicoCAT WAN appliances.

Chassis	Fanless extruded aluminium; desktop set-top (-2, -6) or 1RU rack with 19" ears (-8)
Network	2 / 6 / 8× RJ45 per model, GW:10/40/100G SFP+, with link & activity indicators
Console	1× HDMI, 2× USB; blue status display (unit name + address); role-colour light-pipe
Control	Neon Subpico-bolt power button; four soft keys for on-unit menus
Power	12 V DC input (barrel); up to 36 W; no fans, no scheduled maintenance
Operation	Standalone, private closed network, or optionally connected — protection always on

Built and assured

Every unit is built from a reproducible recipe, self-tests its hardware and data path at start-up, and ships only when it passes. The result is a box you can rebuild identically years from now, and an assurance trail you can audit.

Designed, built and exported from Hungary. Subpico® is a sovereign supplier: the design, the build and the assurance all sit in one place, under one flag.

TALK TO US

Subpico® / SubpicoCAT® appliances — sensor, router, combo and management, from the desktop to the rack.

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SubpicoCAT-2/4/6

The compact edge unit — a two-port set-top for a single site, a tap point or a remote office.

Model	SubpicoCAT-2/6
Form factor	Desktop / set-top, fanless extruded aluminium
Dimensions (approx.)	150 × 115 × 40 mm
Network ports	2/6 × RJ45, link & activity indicators
Power	12 V DC input (barrel); up to ~18 W
Cooling	Fanless, convection; no moving parts
Mounting	Desktop, shelf or wall bracket
Roles	Sensor · Router · Combo · Management
Operation	Standalone/Unmanaged (Air-Gapped network), or optionally connected (managed)

SubpicoCAT-8

The rack unit — eight ports in 1RU for the data-centre or the comms room, managed as part of a fleet.

Model	SubpicoCAT-8
Form factor	1RU rackmount, 19" ears, fanless extruded aluminium
Dimensions (approx.)	440 × 200 × 44 mm (1U)
Network ports	8× RJ45, link & activity indicators
Power	12 V DC input (barrel); up to ~36 W
Cooling	Fanless, convection; no moving parts
Mounting	19" rack, 1U, front ears
Roles	Sensor · Router · Combo · Management
Operation	Standalone/Unmanaged (Air-Gapped network), or optionally connected (managed)