

# Tomahawk™ Grip S20



Grip S20 is a ruggedized, metal-clad controller case designed for the Samsung Galaxy S20 Tactical Edition smartphone. The Grip S20 features military-hardened physical buttons and joysticks, an integrated heater for cold weather environment, along with an integrated USB hub that simplifies the charging and data transfer process in Nett Warrior loadout configurations. The controller case also includes an integrated hardware unlock for Kinesis at no additional cost. Users can easily download the latest version of Kinesis and seamlessly integrate into the Tomahawk Ecosystem, providing an advanced common control system for all tactical operations.

## \_Specifications

### [CONNECTIONS]

<b>END USER DEVICE (EUD)</b>	Samsung Galaxy S20 Tactical Edition
<b>EUD USB-C PORT</b>	Internal USB-C plug for data transfer and USB Power Delivery 3.0 fast charging
<b>CHARGE/DATA USB-C PORT</b>	External USB-C receptacle for data transfer/charging of EUD, compatible with USB Power Delivery 3.0 chargers and supports Samsung DeX
<b>NETT WARRIOR+ (NW+) INPUT PORT</b>	Accepts NW power sources and provides USB 3.2 Gen 1 downstream connection from EUD

### [SOFTWARE]

<b>CONTROLS</b>	USB Human Interface Device
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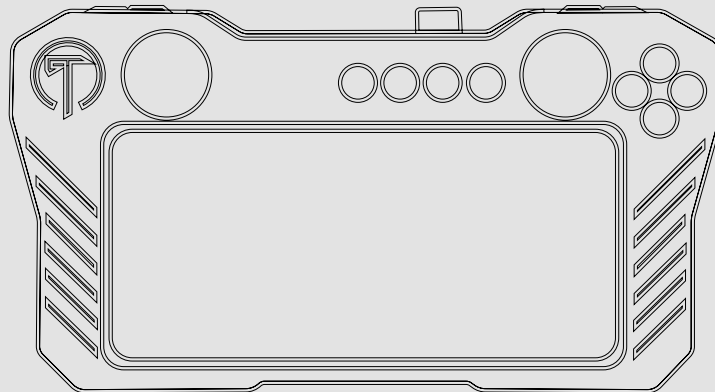
### [SECURITY]

<b>TRUSTED BOOT</b>	Firmware authentication: secure hash validation Encryption: 256-bit Cipher
<b>TRUSTED SIGNALING</b>	Redundant hardware validation

### [ELECTRICAL]

<b>EUD CHARGING</b>	EUD fast charge up to 27 W via USB Power Delivery 3.0
<b>GRIP POWER CONSUMPTION</b>	0.17 W (standby) 0.65 W (enabled) 18 W <sup>1</sup> (warming EUD from -20 to +10 °C)
<b>GRIP POWER SOURCE</b>	EUD powers Grip when no external power source is available and automatically switches to a connected external source

1. Requires external power.



## \_Key Features

- > Streamlined for light infantry, air assault, and special operations
- > MOLLE mount system for operator wearability
- > Optimized for the proven Samsung Galaxy S20 Tactical Edition EUD
- > Integrated USB-C for data transfer and charging without EUD removal
- > Extends EUD cold temp range with the integrated heater element
- > Supports Samsung DeX to enable mounted/dismounted operations
- > Proudly designed and built in the USA - NDAA/TAA compliant

### [ENVIRONMENTAL]

<b>OPERATING TEMP</b>	-20 to 50 °C per MIL-STD-810G
<b>STORAGE TEMP</b>	-40 to 71 °C per MIL-STD-810G
<b>SHOCK</b>	MIL-STD-810G, Method 516.6, Procedure IV
<b>VIBRATION</b>	MIL-STD-810G, Method 514.6, Procedure IV
<b>INGRESS RATING</b>	IP67
<b>ELECTROMAGNETIC INTERFERENCE (EMI)</b>	MIL-STD-461F CE102, CS101, CS114, CS115, CS116, RE102, RS103 MIL-STD-464C 5.3 (Ground)
<b>ELECTROSTATIC DISCHARGE(ESD)</b>	NATO standard AECTP-500, NCS12
<b>WEATHER CONDITIONS</b>	Sand and Dust: MIL-STD-810G, Method 510.5, Procedures I & II Salt Fog: MIL-STD-810G, Method 509.5 Rain: MIL-STD-810G, Method 506.5, Procedure I
<b>ALTITUDE</b>	HALO Capable
<b>COMPLIANCE</b>	CE, RoHS