



BLUESKY MAST®
elevating solutions™

350G XL LIFT SERIES

Our strongest, most advanced portable mast platform, designed for mission-critical applications in the most demanding environments.

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WHY BLUESKY MAST?

We build the world's most advanced multi-purpose, portable mast platforms for military communications and surveillance.

Distance communication will always require elevation, so getting a mast is not a choice, it's a requirement. BlueSky Mast has pioneered the consolidation of video / voice / data communication, surveillance, and even lighting protection onto one mast platform.

A BlueSky Mast System gives you invaluable advantages over the traditional array of separate devices. Deployed in minutes, it can be configured to support multiple applications, eliminating the need for any number of other masts.



RAPID DEPLOYMENT

Designed to enable warfighters to quickly and easily deploy the mast in any environment.



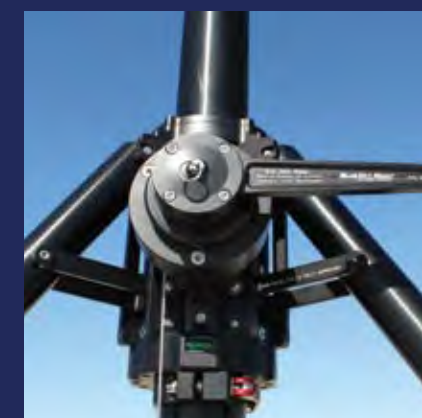
FREE STANDING

Patented tripod based, sectional mast designed to be independent of vehicles and shelters.



ADAPTABLE

Patented tool-less accessories that reduce set up time, help meet changing requirements and simplify field deployments.



DEPENDABLE

Precision engineered components to achieve maximum performance and durability.

TESTED AND PROVEN



MISSION

Mitigate the need for multiple masts systems and minimize set-up time and manpower requirements in the field.

EVALUATION

The BlueSky Modular Mast Platform can be used to elevate multiple devices on a single mast in order to enhance communications and situational awareness. The highly-adaptive design allows for quick set-up in the field while reducing employment complexity, manpower requirements and overall footprint.

SUMMARY

The BlueSky Mast is optimal for quick set-up of multiple antennas, thus eliminating the need for multiple legacy mast systems. It made significant contributions toward closing the TRADOC-defined capability gap and no issues were identified that would preclude equipping this system now. Recommended for immediate fielding.

The 350G XL Lift Series Mast System has been tested, evaluated and recommended for immediate fielding by the US Army.



350G XL

LIFT SERIES FAST MECHANICAL LIFT SYSTEM

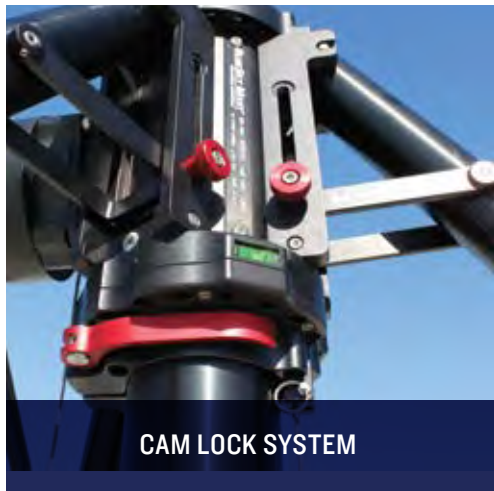
PRIMARY USE

- Military RF Communications
- Wireless Data
- LTE / Cellular
- Video Surveillance / Security Systems
- Custom Applications

MAXIMUM PAYLOADS



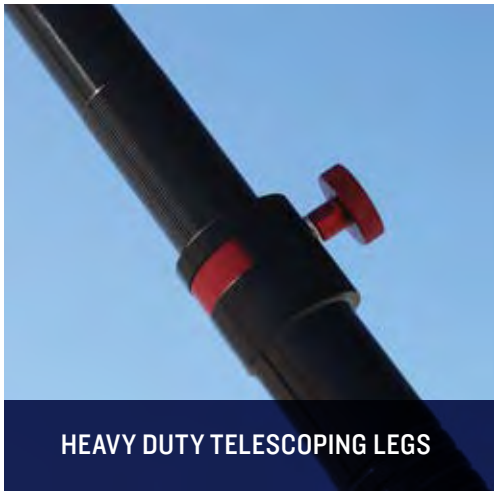
FAST MECHANICAL LIFT SYSTEM



CAM LOCK SYSTEM



3.5 INCH LIFT TRIPOD



HEAVY DUTY TELESCOPING LEGS



3.5 INCH OD MAST



SPECIFICATIONS

Model Heights Available	5 to 15 meters (17.5 to 49 ft)
Payload Capacity	175 to 75 lbs. <i>(See Capabilities Chart)</i>
Wind Loading	90 mph
Deployment Time	2 people, 15 to 30 minutes
Outside Diameter	3.5 inches
Testing	MIL-STD-810H

TRANSPORT

Two 62 x 21 x 14 inch custom hard cases



TESTED , PROVEN, MADE IN THE U.S.A.



CAPABILITIES CHART

The payload is the total weight of all devices, accessories and cabling being mounted on the mast.

SYSTEM P/N	SYSTEM HEIGHT		PAYLOAD	
	FEET	METERS	LBS	KG
 350G-W-L315-LFT-000 <i>NSN: 5985-01-690-9086</i>	49	(15)	75	(34)
350G-W-L314-LFT-000	45.5	(14)	85	(38.6)
350G-W-L313-LFT-000	42	(13)	95	(43.1)
350G-W-L312-LFT-000	38.5	(12)	105	(47.6)
350G-W-L311-LFT-000	35	(11)	115	(52.2)
350G-W-L310-LFT-000	31.5	(10)	125	(56.7)
350G-W-L308-LFT-000	28	(8)	145	(65.8)
350G-W-L307-LFT-000	24.5	(7)	155	(70.3)
350G-W-L306-LFT-000	21	(6)	165	(74.8)
350G-W-L305-LFT-000	17.5	(5)	175	(97.4)

350G XL APPLICATION

MILITARY RF

Multiple Antenna Configurations

The 350G XL Mast System was designed to support RF Tactical applications and is capable of mounting multiple antennas and radios on a single mast. Designed for portability and rapid deployment, this system can be deployed by two trained soldiers in under 30 minutes.

Photo: Soldiers field the 350G XL Mast to support the Army's Network Modernization efforts.



Quad Omni Antenna Configuration



National Guard Members deploy Multi-Band Antennas



Quad COM201 / OE-254 Antenna Configuration

350G XL APPLICATION

WIRELESS DATA

Distance communication will always require elevation, so getting a mast is not a choice, it's a requirement. We manufacture portable masts that exceed the most demanding specifications in any war zone or hostile environment.

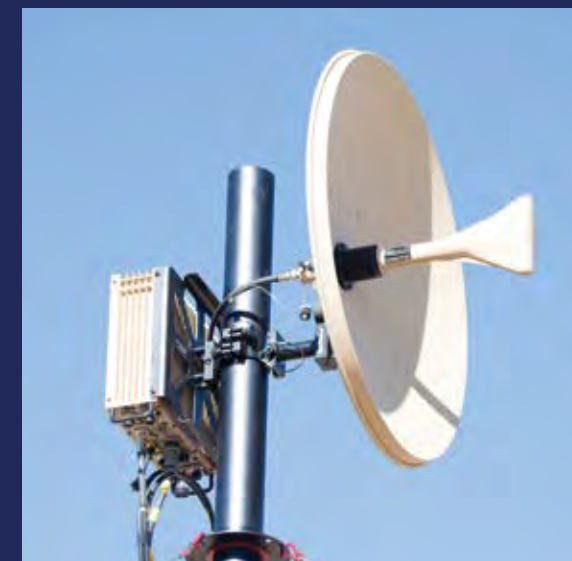
Photo: US Army, program of record - terrestrial transmission line of site (TRILOS).



StreamCaster 4400 w/Sector Antenna and Aruba AP



Cambium PTP 700 Series



ORION X500 high-capacity, multi-channel radio

350G XL APPLICATION

LTE/ CELLULAR

LTE is a must-have technology for effective communications to increase mission effectiveness and allow soldiers on the battlefield to send and receive life-saving information in real time.

350G XL with LTE Configuration to support SOCOM TEIG.2 Event.



Sector Antenna Array for LTE Base Station System



US Army – Network Integration Evaluation



350G XL with 4G LTE / Wi-Fi System

350G XL APPLICATION

VIDEO SURVEILLANCE

With recent advances in digital and optical technology, video surveillance systems are quickly becoming a key component of the new mobile security system.

New portable cameras that delivery everything from long and medium range thermal imaging on the battlefield to feeding real time facial and vehicle recognition & identification are now becoming the standard for today's police and military units.

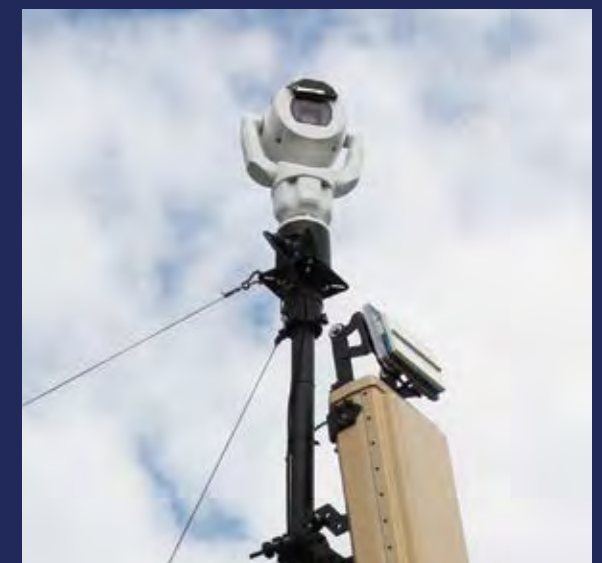
Our portable mast platform has been used to support everything from commercial applications and smaller Pelco Cameras all the way up to medium and long range thermal imaging systems for advanced military surveillance programs.



PM / TS Security Surveillance System



US Army Force Protection (Facial Recognition App)



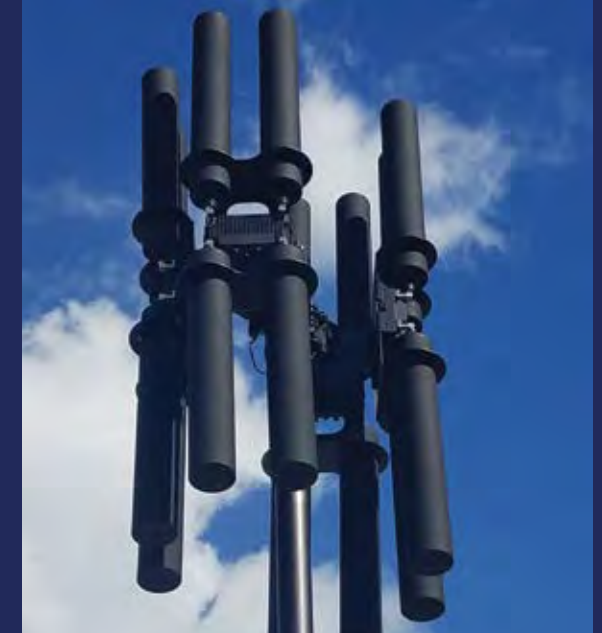
DroneShield Integrated Detect and Defeat Solution

350G XL APPLICATION

CUSTOM APPLICATIONS

BlueSky Mast delivers portable mast platforms and mounting solutions that can easily be customized to meet tomorrow's requirements today. We've developed standardized interfaces on the mast that allow us to quickly and cost effectively create new mounts to fit any application or device so that you get a custom look and feel for a fraction of the price.

Custom configuration supporting wireless data, video surveillance, smart lighting and power generation on a single mast.



HYDRA Central Transceiver Array



Silvus AIRS SYSTEM



Superwind SW350 Micro Wind Turbines

TOOL-LESS SOLUTIONS

BlueSky Mast's suite of patented interchangeable tool-less accessories allow you to easily adapt to changing requirements which give our systems ultimate versatility and strategic value. Our innovative designs completely remove the need for tools, simplifying platform construction and reducing training time and man power requirements. The end result is a faster, highly effective mast deployment.

ACCESSORIES



TOP PLATES & ADAPTORS



SIDE ARM KITS & MOUNTS



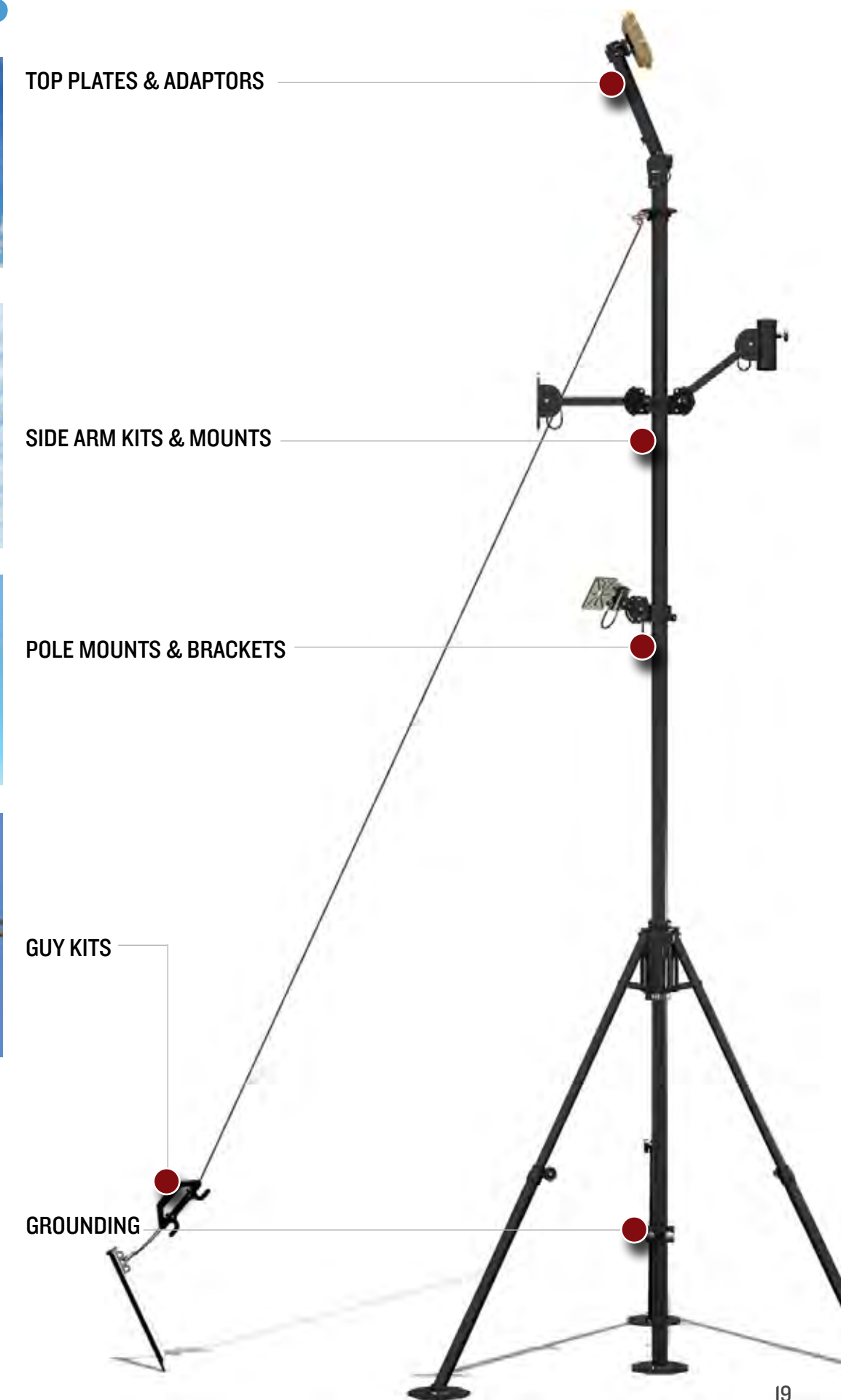
POLE MOUNTS & BRACKETS



GUY KITS

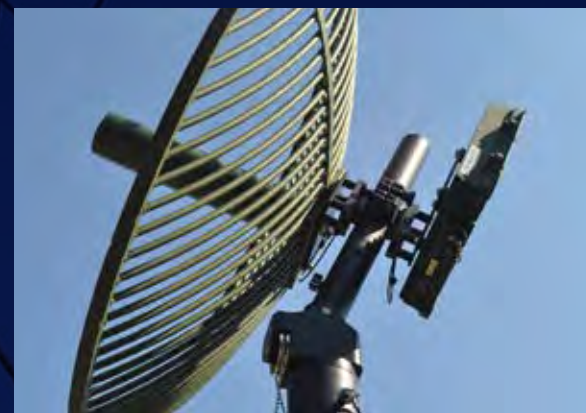


GROUNDING



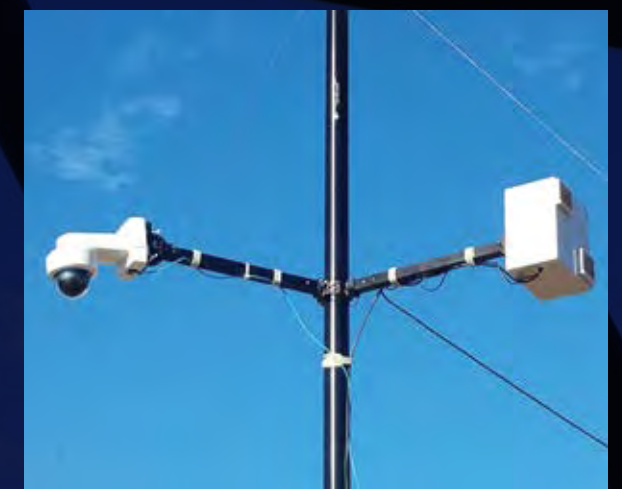
Top Plates & Adaptors

BlueSky Mast offers a full suite of quick release top plates and adaptors for all types of antennas, cameras and devices. Each of the mounting options includes a quick release pin-on adaptor that mounts directly to the mast system mounting pole, which eliminates the need for tools in the field. These quick release adaptors allow for fast and easy installation and increased flexibility for warfighters who have to mount multiple devices on a single mast.



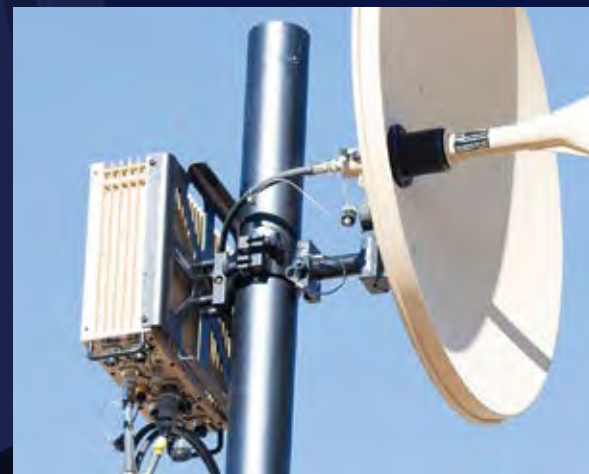
Side Arm Kits & Mounts

BlueSky Mast offers a full suite of side arm kits and mounts. Based on your separation requirements, we have multiple arm lengths and a variety of side mounts which include a quick release push pin for fast and easy installation.



Pole Mounts & Plate Brackets

BlueSky Mast's patented interface (slide lock technology) allow war fighters to easily attach and remove devices to our universal pole mount, which can be secured anywhere on the mast from the base to the top.



Certified Grounding & Lightning Protection

BlueSky Mast has created a suite of certified grounding accessories that enable you to protect your equipment and more importantly your personnel from static discharge and high voltage equipment surges. Our portable mast platforms, when combined with our surface wire grounding kit, have been tested and certified to provide lightning protection equivalent or better than driving an 8 ft. copper rod into the ground.



OUR CAPABILITIES

BlueSky Mast (BSM) designs and builds the world's most advanced multi-purpose, portable mast platforms for military communications and surveillance. We are an experienced Armed Forces contractor with a highly developed understanding of field communications technology and can work with any devices you need to elevate. We have been serving the US DOD and Commercial Markets for over 20 years.

Located in Largo, FL the BSM 7-acre campus includes over 75,000 square feet to support manufacturing, engineering, warehouse and fulfillment centers.

STATE-OF-THE-ART MACHINING CENTER

We at BSM utilize a wide range of vertical / horizontal milling and turning equipment with multi-axis capability to produce precision-machined parts with tolerances of +/- .0001 inches. With over 15 brand new OKUMA Machines including multiple M560's, L300's and Multus U4000 and U5000 Systems, our capabilities are limited only by our imagination.

DESIGN ENGINEERING AND RAPID PROTOTYPING

The BSM team of engineers provide rapid prototyping and fabrication capabilities using the best quality materials manufactured to the tightest tolerances. They can design, prototype and ship faster than most companies can deliver a standard part.

FULL SERVICE INTEGRATION AND KITTING SERVICES

Why have your equipment shipped and handled by multiple companies when you can utilize our turn-key integration and kitting services? The BSM integration teams are proficient in both hardware and network integration, and offer a full range of customizable packages tailored to your specific requirements.





PROUDLY MADE IN THE U.S.A.

Made from non-corrosive, aerospace-quality alloys machined to exacting specifications.

MIL-STD-810H

Environmental tested for wind-driven rain, humidity, icing and freezing, sand and dust.



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