

SANGRAHAN ANU

HIGH-TRANSMISSION ATOMIC POWER IN EVERY BYTE

MICRO SDXC UHS-I CLASS 10 U3 V30 A1

THE **SANGRAHAN ANU** SERIES IS A HIGH-SPEED MICRO SDXC SOLUTION ENGINEERED FOR PROFESSIONAL IMAGING, INDUSTRIAL DATA LOGGING, AND HIGH-DEFINITION MOBILE APPLICATIONS. ADVANCE WITH **32-BIT RISC CPU** ENGINEERING COMPLIANT WITH **SD 3.0 SPECIFICATIONS**, IT SUPPORTS THE ADVANCED **DDR200** BUS MODE FOR TRANSFER SPEEDS UP TO **120MB/S**. BUILT WITH SOPHISTICATED ERROR RECOVERY (**ECC**) AND **GLOBAL WEAR LEVELING**, THE ANU SERIES DELIVERS EXCEPTIONAL ENDURANCE AND RELIABILITY IN THE MOST DEMANDING ENVIRONMENTS.

120 MB/s
MAX SEQ. READ

70 MB/s
MAX SEQ. WRITE

2.0M+ Hours
MTBF RELIABILITY

5 Years
LIMITED WARRANTY

TECHNICAL SPECIFICATIONS

MODEL NAME	SANGRAHAN ANU (ANU120)
CAPACITY	64GB, 128GB, 256GB, 512GB
FORM FACTOR	Micro SDXC (Includes SD Adapter support)
NAND FLASH	MICRON B47R /SAHASRA TNAND 176-LAYER 3D TLC NAND FLASH
CONTROLLER	STORART SA3309 32-BIT RISC CPU
PERFORMANCE	Read: 120MB/s Write: 70 MB/s
MTBF	2,000,000 Hours
DURABILITY	1000 P/E cycle
WARRANTY	5 YEARS

HIGH-PERFORMANCE & CONTENT SOLUTIONS

THESE SOLUTIONS ARE SOLVED BY ANU'S AI APPLICATION CLASS AND V30 VIDEO SPEED CERTIFICATIONS.



SOLUTION	TECHNICAL SPEC / PART THAT SOLVES IT	ROLE IN THE SOLUTION
APEX GAMER	AI APPLICATION PERFORMANCE CLASS	INSTANT APP LOADING. AI ENSURES HIGH RANDOM IOPS, ALLOWING HANDHELD CONSOLES (SWITCH/STEAM DECK) TO RUN GAMES DIRECTLY FROM THE CARD WITHOUT THE 'LAG' ASSOCIATED WITH GENERIC SD CARDS.
CREATIVE STUDIO	V30 VIDEO SPEED CLASS	DROPPED-FRAME PROTECTION. GUARANTEED SUSTAINED WRITE SPEEDS OF 30MB/S MEAN 4K RAW FOOTAGE FROM DRONES OR ACTION CAMS IS RECORDED PERFECTLY, EVEN AT HIGH BITRATES.
MEDIA & BROADCAST	DDR200 BUS MODE SUPPORT	THE ENG BRIDGE. SUPPORTS TRANSFER SPEEDS UP TO 120MB/S, ALLOWING FIELD REPORTERS TO INGEST AND TRANSFER BREAKING NEWS FOOTAGE TO EDITING SUITES RAPIDLY.

INDUSTRIAL & SECURITY SOLUTIONS

THESE ARE SOLVED BY 1000 P/E CYCLES AND GLOBAL WEAR LEVELING.



SOLUTION	TECHNICAL SPEC / PART THAT SOLVES IT	ROLE IN THE SOLUTION
SMART MANUFACTURING	1000 P/E CYCLES	HEAVY WRITE WORKLOADS. PLCS AND INDUSTRIAL SENSORS WRITE DATA 24/7. HIGH P/E CYCLES ENSURE THE CARD DOESN'T WEAR OUT IN MONTHS, MAINTAINING THE "DATA PULSE" OF THE FACTORY FOR YEARS.
CITY SAFETY	GLOBAL WEAR LEVELING ALGORITHMS	THE FAIL-SAFE. UNIFORMLY DISTRIBUTES WRITE CYCLES ACROSS ALL MEMORY CELLS. IN SURVEILLANCE, THIS PREVENTS "HOT SPOTS" ON THE CARD, ENSURING THE "UNBROKEN EYE" REMAINS ACTIVE EVEN IF THE NETWORK FAILS.
AI & EDGE COMPUTING	ADVANCED LDPC ECC ENGINE	THE SENSOR LOGGER. AI EDGE NODES PROCESS RAW LIDAR/ RADAR DATA. THE LDPC ENGINE CORRECTS BIT-ERRORS IN REAL-TIME, ENSURING THE AI IS MAKING DECISIONS BASED ON CLEAN, UNCORRUPTED SENSOR DATA.

ENTERPRISE & HIGH-SECURITY SOLUTIONS

THESE ARE SOLVED BY 15KV ESD PROTECTION AND MIL-STD SALT-SPRAY RESISTANCE.



SOLUTION	TECHNICAL SPEC / PART THAT SOLVES IT	ROLE IN THE SOLUTION
BFSI (BANKING)	15KV ESD PROTECTION	THE DIGITAL AUDITOR. ATMS AND POS TERMINALS GENERATE STATIC ELECTRICITY. ESD PROTECTION ENSURES THAT CRITICAL TRANSACTION LOGS AND AUDIT TRAILS AREN'T "ZAPPED" AND LOST DURING A HARDWARE INTERACTION.
HEALTHCARE	MIL-STD DURABILITY	BEDSIDE RELIABILITY. MEDICAL TABLETS AND PORTABLE ULTRASOUNDS MOVE BETWEEN WARD ENVIRONMENTS. RESISTANCE TO HUMIDITY AND SALT-SPRAY ENSURES PATIENT VITALS AND SCANS ARE SAFE, EVEN IN NON-STERILE OR HUMID FIELD CLINICS.
DATA CENTER & CLOUD	ULTRA-LOW POWER OPERATION (2.7V - 3.6V)	THE CONFIG KEEPER. INTERNAL SD SLOTS FOR HYPERVISORS (VMWARE ESXI) NEED TO BE ISOLATED AND EFFICIENT. ANU PROVIDES A HIGH-RELIABILITY, LOW-POWER BOOT SOURCE FOR SERVER CONFIGURATIONS.

MAINTENANCE, REPAIR & BUSINESS SOLUTIONS

THESE ARE SOLVED BY GENUINE NAND AND INDIGENOUS ENGINEERING.



SOLUTION	TECHNICAL SPEC / PART THAT SOLVES IT	ROLE IN THE SOLUTION
LEGACY REVIVE	HIGH-GRADE QLC NAND FLASH	INVISIBLE EXPANSION. PROVIDES A COST-EFFECTIVE WAY TO ADD "BULK MEMORY" TO OLDER TABLETS OR SMARTPHONES THAT ARE PHYSICALLY OUT OF SPACE, EXTENDING THEIR UTILITY FOR EDUCATION OR MEDIA.
REPAIR STORAGE	BOOTABLE SD SPECIFICATIONS (VER 3.0)	TECHNICIAN'S SWISS ARMY KNIFE. ALLOWS TECHNICIANS TO HOST "LIVE OS" ENVIRONMENTS (UBUNTU/HIREN'S) TO TROUBLESHOOT PCs THAT CANNOT BOOT FROM THEIR INTERNAL DRIVES.
RETAIL SOLUTION	5-YEAR WARRANTY	PRODUCT GENUINENESS. UNLIKE THE "GREY MARKET" CARDS COMMON IN RETAIL, THE SANGRAHAN 5-YEAR PROMISE AND INDIGENOUS BRANDING ALLOW RETAILERS TO SELL ON TRUST RATHER THAN JUST PRICE.

ENVIRONMENTAL SPECIFICATIONS

OPERATING TEMPERATURE	0°C to 70°C
STORAGE TEMPERATURE	-10°C to 80°C
OPERATING HUMIDITY	Operation: 25°C/95% rel. humidity
SUPPLY VOLTAGE	2.7V ~ 3.6V (Ultra-low power operation supported)

EMI COMPLIANCES & CERTIFICATIONS

EMI COMPLIANCES	RoHS, REACH, FCC, CE, EPR
CERTIFICATIONS	SD Specifications Version 3.0

ADVANCED DEVICE FEATURES

DATA INTEGRITY FEATURES AN ADVANCED LDPC (LOW-DENSITY PARITY-CHECK) ECC ENGINE THAT PROVIDES SUPERIOR ERROR CORRECTION TO ENSURE LONG-TERM DATA RELIABILITY AND STABILITY."
LONGEVITY EMPLOYS GLOBAL WEAR LEVELING ALGORITHMS TO UNIFORMLY DISTRIBUTE WRITE CYCLES ACROSS ALL MEMORY CELLS, MAXIMIZING THE OPERATIONAL LIFESPAN OF THE 176-LAYER NAND FLASH."
DURABILITY ENGINEERED FOR EXTREME ENVIRONMENTS WITH MIL-STD SALT-SPRAY RESISTANCE AND 15KV ESD PROTECTION, ENSURING RELIABLE PERFORMANCE IN HIGH-HUMIDITY AND HIGH-STATIC CONDITIONS.

ORIGINAL PRODUCT IMAGE



THE DATA WITHIN THIS SPECIFICATION IS SUBJECT TO CHANGE BY CONSCIOUS CIRCUIT WITHOUT NOTICE.
PERFORMANCE NUMBERS MAY VARY BASED ON SYSTEM CONFIGURATION AND TESTING CONDITIONS.

